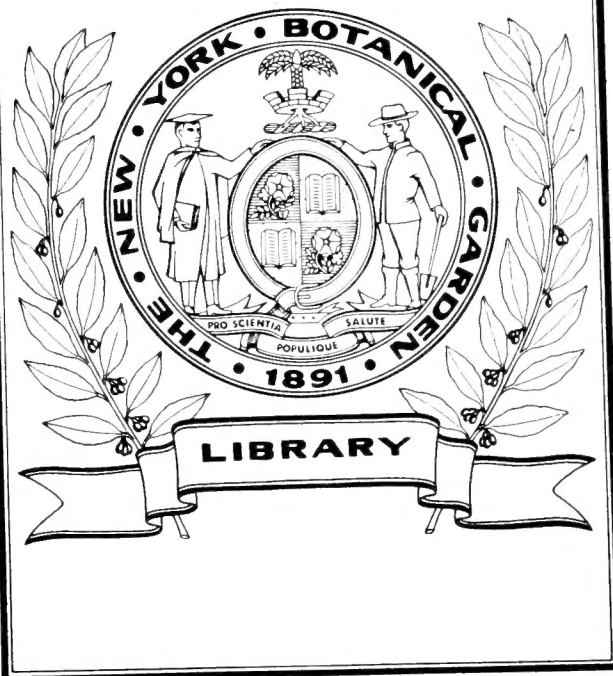
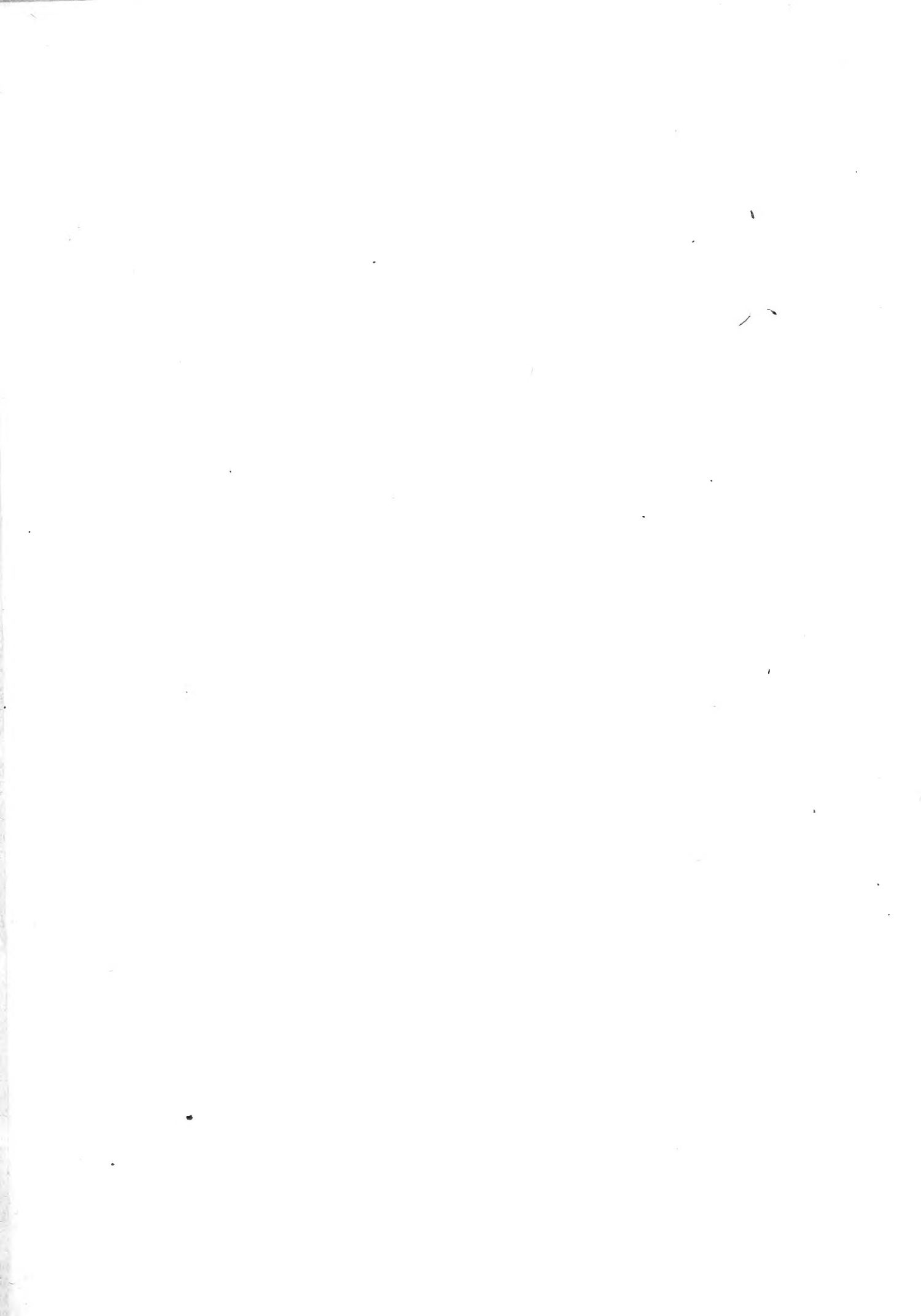


XH
.0851

vol. 24
1916





INDEX TO VOLUME XXIV

Illustrated articles are marked with *

	Page		Page
A		Cleveland Florists' Club	472
Accepting a debtor's notes in settlement of accounts.....	515	Cleveland Flower Show.....	572, *665
Accuracy, Grovelling	411	698, *782	
Advancing of prices—why not?..	347	Cleveland Industrial Exposition	74, 313, 410
375, 413		Club and Society Notes.....	12, 76, 125
Advertising, Honest	379	147, 189, 205, 250, 312, 346, 378, 410	
Agriculture, The boy scout in...	606	460, 526, 539, 571, 606, 668, 843	
American Institute Chrysanthemum Show.....	666	Collection of debts barred by bankruptcy proceedings.....	366
Ames, Iowa, Flower show at, Co-operative	700	Color standardization.....	206
Androsaces, The	41	Conifers, Notes on.....	876
Appreciation, An	767	Connecticut Horticultural Society	445, 817
Assistant Gardeners' Essay Contest	493	Convention City, News from the	75, 140
Astilbe Davidi	465	Convention Garden exhibits, Some notable	313
Astilbes and herbaceous spireas	471	*Cornell Rose Test Garden.....	168
Autumn subjects, Some hand-some	537	*Cornell University notes.....	574
Avocado, The Gantor	97, 104	Corporations, New.....	16, 48, 87, 126
Azaleas, coming, Belgian.....	475	158, 174, 219, 248, 327, 355, 380, 416	
Azalea shipments satisfactory...	774	460, 494, 540, 576, 622, 654, 686, 772	
B		810, 848, 885	
Begonias, The raising of winter-flowering	375, *763	Cucumber mosaic disease.....	29
Belgian shipments improbable...	396	Cyclamen	838
Belgian shipments, Re.....	414	*Cypripedium insigne Sanderae..	753
Belgian products, No embargo on	605	764	
Bird Treaty, The.....	885	*Cypripedium X Pollettianum.....	535
Book, A useful.....	93	D	
Borers on forest trees, Flathead.	828	Dahlia and chrysanthemum types, New	605
Boston, A new industry in	776	*Dahlia Albert Manda.....	355
Boston, Gardeners' & Florists' Club of..	378, 408, 538, 696, 771, 842	Dahlia, A friend of the.....	492
Boston autumn flower show.....	572, 603, 634	Dahlias, A new use for.....	875
Boston plant establishments, Some	782	Dahlia blooms, Refreshing.....	290
Bougainvillea	141	*Dahlia Mrs. Alfred I. Dupont....	290
Boxwoods in winter storage.....	700	*Dahlia Mrs. Frederick Grinnell, Peony-flowered	492
*Burpee Sweet Pea Exhibit at Bar Harbor	129	Dahlias in Minnesota, Trials of..	492
Bulbs destroyed, French.....	347	Dahlia Show, Attleboro, Mass....	408
Business Troubles.....	16, 48, 94	Dahlia Show, New York.....	376
151, 174, 212, 250, 355, 382, 430, 525		Dahlia Society, American.....	124, 442
549, 576, 608, 642, 772, 882		*Dawson, Jackson Thornton.....	193, 201
C		202, 239, 419	
*California wild flowers.....	77	E	
Campanulas	168	Early closing is possible.....	85
Canadian Horticultural Association	250	Editorial:	
*Carnation growers, A boon for..	61	—The best fertilizer. Advertising value	8
Carnation Society, American.....	*104, 189, 843	—A reminiscence. "On tiptoe for a flight." A commendable custom. As between societies....	40
Carnation problems.....	870	—Preparedness. Rose gardens coming. Publicity.....	72
Carnations	762, 870	—Prize schedule misunderstandings. The danger in changing show dates. Forearmed for emergencies	102
Carnations at S. J. Goddard's.....	852	—The key to prosperity. Friends of the peony. Our bird friends	136
Catalogues received.....	78, 111, 142	—Government inconsistency. All eyes on Houston. The trend of events	170
174, 210, 252, 318, 359, 396, 413, 455		—Opportunity knocks. A master spirit gone.....	200
493, 510, 540, 576, 644, 704, 848		—An epochal convention. An old problem	240
*Cattleya Trianae	721	—An anomaly. A big undertaking. A situation and a forecast....	280
Chicago Floral Art Display.....	602, 664	—September cheer. Convention Garden shortcomings. The month of fairs.....	310
Chicago Florists' Club	376, 817	—Importers' trials. A bond of sympathy. Boom the sweet pea	344
Chicago to Bloomington	572	—Looks like faulty methods.	
*Chrysanthemum basket at New York show	657	Mutations of the dahlia. It can't be done.....	374
*Chrysanthemum Hamburg Late White	841	—"Good out of evil." The English sparrow. A good move....	406
Chrysanthemums, Hardy	428	—Very encouraging. Dahlias and dahlias. The flower show—its use and its abuse.....	440
*Chrysanthemums in Oklahoma..	772	—Plants of merit. The F. T. D. For the roses.....	470
Chrysanthemum Leaf Roller, To kill the	542, 606	—Robbing nature. To revivify the pomologists.....	504
Chrysanthemum Society of America.....	300, 451, 575, 635	—What a chance! Combatting the H. C. L. The growing F. T. D. 533	
637, 696, 730, 818		—The Convention Garden horizon. We're "getting there." Further progress.....	566
		—A commendable move. Maltreating the laurel. Pinched...	600
		—The laurel folly and the florists' interests. A fair deal for the ladies. Sentiment in floriculture	630
		—Sweet Pea Society prospers. A good example. What modern business demands. A question of money and methods.....	662
		—The newspapers' help. A successful show season. Thanksgiving Day. Fire prevention..	694
		—A great trial of new roses. Disproportionate premiums. Mutations of the chrysanthemum	728
		—The war blight. Our creed. Our aim.....	766
		—Who is to blame? Words, words, words. Is the florist "on his job?" All lining up...	806
		—Strive for the best. Prosperity	840
		—To the ladies. Coming our way. A commendable project. Your opportunity.....	872
		Employees, collectors or agents hold out money. When.....	225
		El Paso, Texas, In.....	225
		*Eupatorium	726
		*Euphorbia triangularis.....	375
		Exhibitions, Coming.....	12, 124
		138, 189, 204, 250, 300, 313, 346, 376	
		410, 440, 474, 509, 538, 572, 601, 632	
		F	
		False representation.....	543
		*Farquhar outing.....	412
		*Fern garden, A hardy.....	337, 347
		Fern sporelings, Boston.....	141
		Fertilizer situation in Connecticut	878
		Fifteen years ago today.....	412
		Florist missing, Westerly.....	416
		Florists' stock, Notes on culture of:	
		—Chrysanthemums. Crotons. Orchids. Raising perennials. Preparing compost for carnations. Stock plants.....	7
		—Aerides. Bulb compost. Chrysanthemums. Eucharis amazonica. Smilax. Time to think of Christmas.....	39
		—Achimenes. Asparagus Sprengeri. Housing carnations. Lorraine begonia. Mignonette for winter. Reminders.....	71
		—Antirrhinums. Beds of adiantum. Chrysanthemums. Orchids. Rambler roses. Reminders	101
		—Callas. Care of gardenias. Cinerarias. French bulbs. Har-	

	Page		Page		Page
risii lilies. Palms. Rhododendrons. Reminders.....	135	—Buffalo: 53, 117, 217, 261, 325, 357, 389, 421, 485, 517, 583, 679, 743, 821, 855		Horticultural education.....	171
—Cattleya gigas. Repairing. Feeding chrysanthemums. Geranium cuttings. Winter-flowering sweet peas. Reminders....	167	—Chicago: 21, 53, 85, 117, 149, 181, 217, 261, 293, 325, 357, 389, 421, 453, 485, 517, 551, 583, 615, 647, 679, 711, 743, 785, 821, 887		Houston, Convention City *11, 44, *205	
—Care of poinsettias. Primulas. Mignonette for mid winter. Paper white narcissi. Preparing soil. Reminders.....	199	—Cincinnati: 21, 53, 117, 149, 217, 261, 325, 357, 389, 421, 453, 551, 583, 615, 679, 711, 743, 821, 887		Houston Convention rates.....	205
—Cattleyas. Freesias. Lorraine begonias. Nephrolepis. Plants for Christmas. Reminders....	239	—Cleveland: 517, 551		*Hydrangea Otaksa at its best 433, 455	
—Bouvardias. Carnations. Giganteum lilies. Miltonias. Transplanting large palms. Reminders.....	279	—New York: 21, 53, 117, 149, 181, 217, 261, 293, 325, 357, 389, 421, 453, 485, 517, 551, 583, 615, 647, 679, 711, 743, 787, 823, 855, 887		I	
—Ardisia crenulata. Pansies for winter flowering. Pompon dahlias for Christmas. Schizanthus Wisetonensis. Swainsona. Reminders.....	309	—Philadelphia: 21, 53, 85, 117, 149, 181, 217, 261, 325, 357, 389, 421, 453, 485, 517, 551, 583, 615, 647, 679, 711, 743, 787, 823, 855, 887		*Iberis.....	764
—Euphorbia jacquiniæflora. Lillium multiflorum. Mignonette. Orchids. Phlox. Reminders..	343	—Pittsburgh: 23, 53, 85, 117, 149, 181, 219, 261, 293, 391, 519, 585, 615, 647, 713, 750, 789, 823		Illinois, University of.....	698
—Canterbury bells. Dutch bulbs. Summer flowering bulbs. Lifting shrubs for forcing. Lily bed. Reminders.....	405	—St. Louis: 23, 53, 85, 117, 151, 181, 219, 263, 293, 359, 391, 519, 585, 615, 647, 679, 713, 750, 789, 827, 889		Indemnity for damaged parcel post packages.....	524
—Cyclamen. Care of carnations. Lorraine begonias. Orchids. Peonies. Reminders.....	439	—Washington: 23, 55, 85, 117, 151, 181, 219, 263, 293, 359, 391, 423, 453, 487, 519, 553, 585, 617, 647, 681, 717, 750, 789, 827, 857		Indiana and Kentucky florists, Joint meeting of.....	508
—Acacias. Cypripediums. Lomarias. Marguerites. Preparing land for next year. Reminders.....	469	Flower pot industry, The.....	795	Insect problem of the florist as seen by an entomologist.....	332
—Azaleas. Care of summer flowering cattleyas. Lilies for the holidays. Otaheite oranges. Violets. Reminders.....	501	*Flower store, An ideal.....	593, 610	Insecticides purer.....	542
Allamandas. Carnations. Young cinerarias. Planting shrubs. Primulas for Christmas. Reminders.....	533	Flowers, animals and men.....	430	International Flower Show, New York, 1917.....	106, 301
—Begonia Gloire de Lorraine. Callas. Lily of the valley. Paper whites and Roman hyacinths. Sweet peas. Reminders.....	565	Forestry officer, New.....	605	Iowa autumn flower show....	572, 602
—Dracaena indivisa. Ericas. Forcing gladiolus. Smilax. Veranda boxes for winter. Reminders.....	600	Freakish facts and factless freaks.....	190, 268, 397	K	
—Care of carnations. Violets. Orchids. Spirea japonica. Sweet peas. Reminders.....	629	Freesias. The new "Rainbow"....	258	Kasting Company burned out....	119
—Care of fuchsias. Daffodils for early forcing. Forcing of ixias. Japan lilies. Propagating crotons. Reminders.....	661	*Fulmer, Perle B., President Ladies' S. A. F.....	872	Kasting, The late William F.....	9
—Cyclamen. Flowering plants for Christmas. Hybrid perpetual roses for Easter. Poinsettias. Tulips and Von Sions. Reminders.....	693	Fumigation, Greenhouse.....	734	*Kerr, George W.....	138
—Holiday suggestions. Lilies for Christmas. Lillium speciosum. Lorraine begonias. Rhododendrons for forcing. Reminders..	725	G		*Kerr, Robert C., President-elect S. A. F.....	229
—Care of Christmas plants. Christmas greens. Cinerarias. Fern spores. Reminders.....	761, 762	*Garden, A home.....	428	L	
—Callas. Easter lilies. Mignonette. Orchids. Start propagating. Shamrocks. Reminders..	805	Garden Club of Allegheny County	204	Landscape architecture exhibit..	492
—Care of manure. Gardenias. Giganteum lilies for Easter. Hydrangeas. Schizanthus. Reminders.....	837	Ginger jar. Out of the.....	736	*Landscape art, An object lesson in.....	529, 537
—Care of sweet peas. Forcing dahlias. Geraniums. Oncidiums. Propagating carnations. Reminders.....	869	Gipsy moth apparently eliminated from Ohio, New Jersey and New York.....	654	La Salle County, Picturesque....	323
Florists invited to Cleveland....	300	Gladiolus exhibition in Boston...	205	Ladies' Society of American Florists'.....	300
Flower, A National.....	219	Gladiolus fete, A.....	258	Lakewood Garden Club.....	76
Flower Market reports:		Gladiolus Society, American....	138, 205, 249, 771	Lancaster County Florists' Club	300
—Boston: 21, 53, 85, 117, 149, 181, 217, 261, 293, 325, 357, 389, 421, 453, 485, 517, 551, 583, 615, 647, 679, 711, 743, 785, 821, 855, 887		Gladiolus Society of Ohio.....	138, 205, 301	451, 472, 570, 697	
		*Gladiolus Pink Perfection.....	359	Lancaster County flower show... 664	
		*Gladiolus show room.....	349	*Lautenschlager, Fred.....	698
		Gladiolus spikes, Cutting.....	93	*Lemon for florists' use, A dwarf	845
		Glen Cove fall show.....	633	*Lenox exhibition.....	601
		*Gloxinia, A well-grown.....	51	Lenox Horticultural Society....	668
		Go down among the flowers....	204	*Lilium candidum.....	625, 640
		Gordonia Altamaha.....	535	*Lilium canadense.....	209
		Greatness achieved.....	576	*Lilium regale (myriophyllum).....	161, 598
		Grass diseases, Remedies for....	875	*Lilium Sargentiae.....	401, 407
		Greenhouses building or contemplated: 30, 61, 94, 126, 158, 190, 224, 269, 302, 334, 397, 430, 461, 494, 526, 558, 590, 622, 654, 686, 718, 796, 829, 862, 894		*Lilium Willmottae.....	33, 39
		Greenhouse salesman past and present. The.....	224	Lilly, A great.....	77
		Greenkeeping notes.....	429	M	
		Grubs in lawn.....	155	Madison show, The.....	601
		H		Maryland State Horticultural Society.....	138
		Hail Association. Florists'.....	538	Maryland Week.....	846
		Hammond for mayor, Benjamin..	767	Massachusetts Agricultural College Notes...269, 492, 574, 637, 640, 701, 774, 829, 894	
		Hartford autumn exhibition.....	665	Massachusetts Horticultural Society 74, 212, 376, 408, 509, 571, 696	
		Hartford June flower show.....	43	Michell Flower Show.....	450
		Hartford, Florists' Club of.....	570	Minnesota Horticultural Society	842
		*Hemlock hedge, A.....	369, 375	*Miscanthus sinensis (Eulalia japonica).....	305, 317
		*Herbaceous perennial gardens at M. A. C.....	503	*Montbretia Germana and Sunset in Bar Harbor, Me....	497, 503
		*Highland Park, Rochester, N. Y..	537	Morris County Gardeners' & Florists' Society.....	259
		Holland growers to discontinue auction consignments.....	845	Moths in New England, Fighting.....	795
		Holyoke & Northampton Gardeners' & Florists' Club.....	125, 204	Mt. Desert National Park.....	77
		276, 526, 696, 828		Mt. Kisco show.....	601
		*Horticultural building, Proposed North Shore.....	378	Mushroom house, Mold in.....	204
		N		Nassau County Horticultural Society....	124, 250, 408, 539, 667, 842
		National Parks and Forests, Proposed Tour of the.....	701	National Association of Gardeners.....	376, 667, 696, 768
		National Association of Gardeners.....	376, 667, 696, 768	National Flower Show Committee.....	538
		National Flower Show Guarantee Fund.....	874	National Flower Show Guarantee Fund.....	874
		National Forests and National parks.....	847	National Forests and National parks.....	847
		Nephrolepis varieties at the Brooklyn Botanic Garden, Collection of.....	568, 569	Nephrolepis varieties at the Brooklyn Botanic Garden, Collection of.....	568, 569

	Page
New Bedford Horticultural Society	74, 632
New Haven County Horticultural Society	125, 408
New Haven Park notes	46
New Jersey Floricultural Society	474
New York Florists' Club	125, 376
508, 649, 667, 808	
New York, Horticultural Society of	204, 376, 460, 572, 666
New York's big explosion	183
New York and New Jersey Association of Plant Growers	606
New York State Federation of Horticultural Societies	408, 445
Newport Horticultural Society	412
Newport Summer Show	43
News items from everywhere:	
—Boston	18, 51, 80
111, 176, 214, 257, 295, 322, 354	
386, 418, 450, 482, 514, 549, 580	
676, 709, 740, 778, 816, 853, 885	
—Chicago	18, 50, 87, 109
146, 177, 256, 291, 322, 354, 386	
418, 450, 482, 514, 548, 580, 612	
644, 676, 708, 740, 778, 814, 885	
—Cincinnati	55, 147, 257
418, 740, 781	
—Cleveland	483, 514, 548
—Newport	322, 740
—New York: 18, 51, 80, 111, 147, 181	
214, 295, 322, 354, 386, 418, 450, 514	
549, 581, 644, 676, 741, 781	
—Philadelphia: 19, 55, 109, 146, 176	
256, 322, 386, 418, 483, 548, 580, 677	
708	
—Pittsburgh: 19, 51, 80, 111, 146, 189	
214, 256, 291, 322, 354, 386, 514, 548	
581, 612, 644, 677, 741, 784, 815	
—St. Louis: 19, 80, 214, 291, 327, 355	
549, 581, 612, 644, 676, 781, 815	
—Washington: 18, 50, 81, 111, 147	
173, 214, 256, 291, 354, 386, 418, 450	
482, 514, 548, 581, 612, 644, 676, 709	
740, 779, 814, 853	
News Notes: 16, 30, 48, 94, 144, 212	
214, 254, 288, 333, 352, 355, 391, 423	
448, 478, 487, 546, 576, 607, 642, 674	
738, 862	
Northampton Flower show	632
Nursery stock importations, Disposition of unclaimed	60
Nurserymen, American Association of	13, 76, 474
Nurserymen, California Association of	570

O

Obituary:	
—Adams, C. Thompson, 770; Aldous, Mrs. James T., 379; Arado, James, 607.	
—Baldwin, John, 770; Baldwin, L. D., 878; Barry, Wm. C., *807, 844; Bather, Andrew, 514; Bell, Wm., 19; Bell, William T., 378; Biermaas, Fred W., 607; Bigelow, Edward M., 807; Bird, George, 670; Blackert, Chas. J., 878; Bogue, Edward M., 108; Boyle, John, 379; Brett, Richard, 204; Broadfoot, James, 419; Brown, John S., 571, 638.	
—Carmichael, Mrs. D., 333; *Cartwright, George, 638; Charlton, John, 203; Cheney, Chas. E., 419; Cook, Reinhardt, 483; Copp, Geo. C., 709; Cushing, Joseph H., 735.	
—Dawson, Jackson T., 203; Denker, H. B., 355; Donohue, Michael, 189; Donohue, W. H., 709; Donovan, Michael, 638; Dunbar, Richard H., 189.	
—Elbrecht, Charles, 844.	
—Fitzgerald, James, 378; Fleming, John G., 108; Franks, Thos., 607; Freeman, Katherine E., 670; Fregosi, Albert, 108.	

—Gannon, Thomas J., 638; Good, Wm., 638; Graham, John W., 378; Griffing, Chas. M., 482; Grunewald, Chas. E., 333.	
—Hall, Mrs. Wm. H., 45; Harmon, E. J., 45; Hammock, Harry, 108; Heeremans, Mrs. Frederick, 355; Hinckley, Eugene S., 204; Hoopes, J. E., 878; Howard, Frank S., 807; Huscroft, George L., 571; Hutchinson, Robert W., 151.	
—Johnson, Mrs. John H., 419; Johnson, Herbert W., 807; *Jones, Jerome, 807; Joy, T. C., 709.	
—Kalish, Mrs. T., 189; Kenney, H. J., 535; *Kidd, James, 45; King, L. A., 108; *Kirkpatrick, Robertson, 878; *Kroeschell, Wm. L., 732.	
—Langstaff, Wm., 419; Lanham, Trueman, 670; Leary, Arthur J., 419; Logan, Wm. Thomas, 189; Lyon, John W., 189.	
—Mawley, Edward, 483; McAdams, Mrs. Andrew, 770; Mills, Sara, 45; Mitsch, Frank, 638; Molloy, Wm. F., 638; Morris, Geo. E., 93; Muller, Albert L., 807; Muller, John H., 709; Murdock, A. H., 455.	
—Newton, Wm. J., 378.	
—Oelschig, A. C., 535.	
—Panter, Chas. R., 639; Patterson, John, 419; Philip, David, 455; *Poehlmann, John W., 108; Pollard, Isaac, 770; Prescott, Chas. W., 844.	
—*Reuter, S. J., 732; Rexford, E. E., 571; Roney, George, 189.	
—Salter, Henry A., 333; Salzer, Henry A., 379; Schwarz, Henry, 607; Scommodau, Richard, 535; Shaffer, Mrs. Geo. C., 204; Seavey, Geo. W., 455; Shoemaker, Geo., 19; Simonds, A. E., 93; Snyder, Samuel, 878; Snow, William J., 419; Sobicek, Frank, 639; Stilphen, Daniel, 844; *Stokes, Walter P., 45; Strail, F. N., 770; Supper, John, 189.	
—Taylor, Mrs. Chas. A., 419; Thayer, Bayard, 735; Thoires, Nellie R., 638; Thorburn, Mrs. J. M., 295; Tricker, William, 93.	
—*Vick, Fred W., 670; Vosburgh, John K., 571.	
—White, Henry Kirke, 483; Wilson, Thomas, 379.	
October glories in the hardy garden	505
Ohio State Horticultural Society	874
Ohio State College, Floriculture at	476
Ohio State University, Floriculture in	158
Orchid cultural notes	841
*Orchid decoration at Philadelphia	689
Orchid seedlings, Selecting	569
Orchids and gardenias flourish, Where	581

P

Park Superintendents, American Association of	189, 444, 470
Partners, Discontented	379
Patents granted: 30, 61, 126, 158, 190	
269, 302, 365, 397, 430, 494, 558, 590	
672, 718, 795, 862	
Pawpaw, The	209
Pennsylvania Horticultural Society	538
Pennsylvania, Horticultural Society of Western	700, 818

Page

Peony Society, American	570
Peony, The	92
Peony Society, That new	76, 140
Peonies, Important experiments with	873
Personal: 55, 87, 219, 302, 423, 475	
514, 549, 613, 686, 885	
Philadelphia, Florists' Club of	76
189, 205, 346, 474, 637	
Philadelphia Flower Show	634
*Philadelphians, Three distinguished	735
Pittsburgh Florists' and Gardeners' Club	376, 668, 816
*Pittsburgh Flower Shows	698
*Plant group, Flowering	106
Poetry:	
—Along About Now	204
—A Walk Through the Woods	375
—The Paper Famine	396
—The Old, Old Subscriber	411
—October Song	605
—It Couldn't Be Done	767
*Polemonium	871
Portland, Maine, exhibition	700
Pot Makers' Credit Association	494
Potash factory Dept. of Agriculture to build	794
*Potentilla	169
Primula obconica, Unhealthy	669
Publications received: 60, 253, 316	
460, 493, 510, 542, 576, 702, 703, 736	
828, 844	
*Pyrethrum uliginosum	202

Q

Quarantine against trees and plants, Proposed Federal	895
---	-----

R

Railroad embankment, Planting a	364
Recess, During:	
—*The Waretown opening. *Intrenched against the mosquito.	
Field day at Cromwell	28
—Holton & Hunkel outing	44
—Florists' Club of Washington.	
Pittsburgh Florists' & Gardeners' Club	78
—*Greek-American Florists' Association	80, 81
—Buffalo Florist Club. Albany Florists' Club	119
—Gardeners' & Florists' Club of Boston. Essex County Florists' Club. Florists' Club of Washington. St. Louis Florist Club. Lancaster County Florists' Association. Waretown Rod & Gun Club	156, 157
—*Lancaster County Florists' Club picnic and officers. Bound for Bar Harbor. Boston Gardeners' & Florists' Club picnic	176, 177
—Buffalo Florist Club. St. Louis County picnic	215
—Westchester & Fairfield Horticultural Society. Boston Market Gardeners	248
—*Albany Florists' Club. Connecticut Nurserymen's Association	301
—St. Louis County Growers	313
—Holyoke & Northampton Club	346
—Lenox Horticultural Society.	
*The Farquhar outing	526
—Washington bowlers	526
—Boston Florists' Bowling	
575, 613, 644, 668, 718, 741, 827	
—At St. Louis	575
—Boston Cut Flower Exchange.	
Washington bowlers	613
—New York and New Jersey Plant Growers' outing	644
—Washington bowlers	718, 844
—Chicago bowlers	718, 741
—Lancaster County Florists' Club Annual banquet	844
Retail Florists, Of interest to:	
—*Bride's bouquet of sweet peas.	

	Page		Page		Page
Cleveland florists' plan co-operative display.....	215	*Rose Los Angeles, New.....	801	Tuesday evening session. President's reception. Wednesday's session. Trade exhibition. Portraits. Florists' Hall Association	242-248
—Florists' Telegraph Delivery Association	288, 320, 578	Roses, La France.....	141	—Report of convention completed. Closing session. Report of committee on president's address. Report of judges of trade exhibit and convention garden. Election of officers. Memorial and final resolutions. Report of National Flower Show Committee.....	282-286
—The influence of department store flower selling.....	387	Rose Society, American.....	204, 474	—Luncheon with Houston Rotary Club	302
—An ideal city flower store.....	610	538, 571, 606, 668, 730, 842		—Executive board meeting. Report of Committee on publicity. A correction	312
—*Max Schling's philosophy.....	645	Rose Tournament at Pasadena, California	769	—Fifth National Flower Show.....	842
—Associated Retail Florists of New York	781	Roses, To the growers of.....	327	—Plant registration: 205, 508, 644, 730	
—The F. T. D. busy.....	851	Rowayton, A glance at.....	535	Soils	845
—Flowers by telegraph.....	17, 49, 83	S		Soils, Sour, their causes and treatment	525
114, 145, 179, 213, 255, 299, 320, 353		*Sanders, Prof. James G.....	391	Southampton, N. Y., Flower Show	106
385, 417, 449, 479, 513, 547, 579, 611		*Saxifraga cordifolia	65, 73	St. Louis Florist Club.....	124, 250, 408
643, 675, 707, 739, 777, 813, 851, 882		Seed Trade:		538	
—New flower stores.....	16, 48, 82	—American Seed Trade Association	14	St. Louis Spring Flower Show	540, 575
114, 144, 178, 212, 254, 288, 320, 352		—One Week's Imports.....	14, 78, 109	Storms, Destructive	94
384, 416, 448, 478, 512, 546, 578, 610		142, 174, 210, 252, 286, 318, 349, 382		*Strawberries under glass.....	729
642, 674, 706, 738, 776, 812, 850, 882		414, 440, 476, 510, 544, 576, 608, 640		*Sweet pea, A phenomenal.....	119
Rhinebeck growers.....	412	672, 704, 736, 774, 810, 848, 879		*Sweet pea show at San Francisco	1
Rhode Island Horticultural Society	408, 700	—Notes:	14, 142, 174, 252, 586, 318	10, *74	
*Rhododendron Ravine, Highland Park, Rochester, N. Y.....	833	414, 440, 476, 543, 608, 810, 880		Sweet Pea Society, American.....	11, 42
Rhubarb, Growing.....	375	—Chicago	78	105, 106, 138, 667	
Rochester Flower Show.....	173	—The pea pack. Reduced yield of seed peas. Beans. Onion crop prospects in Canary Islands	142	Sweet pea trial grounds, Report of the	139
Rose and Strawberry Show.....	12, 42	—Holland shipments not insured against loss by delays. In Chicago. Seed legislation.....	174	T	
Rose diseases. Fall measures to combat	874	—British prohibit bulbs by parcel post. Those seductive catalogues	210	Tarrytown Autumn Show.....	632
Rose diseases, Investigation of.....	729	—Federal seed import law amended. Crop notes by bureau of estimates. Low germination of red clover seed. Important customs ruling	252	Tarrytown June exhibition.....	11
Rose garden inspection.....	46	—To a Congressman.....	318	Telegraph Delivery Association, Florists'	104
Rose Garden, The Bagatelle.....	841	—The pea crop. Bean estimate and prices. Corn. California crops. European crops. Vine seeds. The Ferry entertainment	350	*Taxus cuspidata	561, 567
Rose growing under glass:		—Pedigree pea prices. Seed bean prospects. Garden beets, carrots, etc. Rice Seed Co. entertains. Seed importation act amended	382	"Tear Down" Week.....	475
—Tying young Beauties. Disbudding. Picking bottom leaves on Beauties. Scratching over the benches	9	—Clover for seed. Largest bulb shipment. French bulbs, etc.....	414	Texas greeting, A.....	173
—Drying off old plants. Care after planting. Staking grafted plants	73	—Crop report from Holland.....	476	Texas State Florists' Association	180
—Bonemeal. Care of the boilers. Disbudding. Drainage in late planted benches. Manure for fall mulching. Number of shoots to a plant.....	137	—Revising estimates. Peas and beans. Vine seeds. Spinach. European demand. Cannery's shortages. Potatoes and onions very high	544	248	
—Late planting. Lime, spraying with copper. Ventilation.....	241	—An important court decision. High vegetable prices in Wisconsin. M. Van Waveren & Sons, Ltd.	848	Texas State Flower Show.....	639, 737
—Mulching early planted benches. Supplies and coal. Tying. Liming the benches.....	281	—Record prices. To sell by weight instead of measure. Effect of export demands on seed peas. The seed corn situation. Bean crop failures.....	880	Thayer, The late Bayard.....	767
—Fumigation. Those annoying spiders. Grasshoppers and caterpillars	311	*Sempervivum	838	*Thuya occidentalis, Hedge of	273, 290
—Depth of soil. Shaking the plants after syringing. Drainage under the benches. Weeds	345	Sense and sentiment.....	841	Tomato, Fruit-vegetable.....	875
—Cover crops. The fres. Manure for mulching. Planting.....	373	Settlement of claims for damaged mail	483	*Tracey, Thomas	301
—Liquid manure. Flowers for retail work. Careful packing.....	407	Sewickley Horticultural Society	300	Trees and shrubs, Some important new or little known.....	314, 364
—The night temperature. Repairs. Watering. Keep the soil rough. Asparagus and smilax	441	408, 570, 632, 696, 842		*Tunica saxifraga.....	535
—Washing pots. Grading for new houses. The sod heaps.....	502	Shrubs, Forcing spring-flowering	413	Tuxedo Horticultural Society Show	664
—Proper cutting. Watering after a crop. Leaky faucets. The heating pipes. Grading.....	534	*Silene	598	V	
—Liming the benches. Tying.....	567	*Smith, Timothy	313	Vegetable and fruit cellar, Combination	622
—Spraying with copper. Cutting roses. Fresh water for vases—	599	Snow blocked the evergreen raid	853	Vegetable Growers' Association of America	408, *446, *472, 671
—Feeding. Soil for potting. The sod heaps. Working ahead.....	631	Society of American Florists & Ornamental Horticulturists:		Vegetable Growers' Convention.....	108
—Mice and rats. Clean the boiler flues. Last chance for repairs. The Christmas crop.....	663	—Program of 32d annual convention. New York to Houston. Chicago to Houston. The call of the South.....	103, 104	*Vinson, M. A.	313
—Disbudding. Pinching Beauties. Thanksgiving. Lining boxes.....	695	—32d Annual convention. Opening session. President's address. Secretary's report. Treasurer's report. Report of Washington representative. Report of the school garden committee.		Violet leaf spots.....	726
—Watch for crown gall. Mulching Beauties. Cleaning up. Sulphur on the pipes.....	727			Visitors' Register: 23, 55, 93, 119, 151	
—Christmas roses. Soot. Be ready for snow. Care of grafted plants. Work in the propagator	765			219, 263, 295, 323, 352, 384, 423, 455	
—The propagating benches. Shading. A cross house as a propagator. Temperatures	839			487, 519, 553, 585, 617, 654, 677, 704	
				741, 774, 812, 857, 874	
				W	
				Washington, Florists' Club of... 376	
				508, 808	
				Waterlilies, New hybrid.....	348
				Westchester & Fairfield Horticultural Society: ...	124, 250, 570, 632
				668, 815	
				White Pine blister rust, The.....	268
				Wild onion, To eradicate.....	157
				Wisconsin State Horticultural Society	205
				Worcester County Horticultural Society	808
				Worcester (Mass.) Fall Exhibition	698

Vol. XXIV
No. 1
JULY 1
1916

HORTICULTURE



General View of the San Francisco Exhibition American Sweet Pea Society

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription, \$1.00

MORSE'S EARLY FLOWERING

LONG SEASON SPENCER SWEET PEAS

1916 NOVELTIES

NOW READY FOR DISTRIBUTION



EARLY FLOWERING SPENCER, "Early Song Bird"

EARLY MORNING STAR

—Bright Orange-Rose Spencer

EARLY SONG BIRD

—Light Pink on White Spencer

EARLY MELODY

—Rose Pink on White Spencer

EARLY SPRING MAID

—Light Pink on Cream Spencer

EARLY SNOWFLAKE

—White Spencer

EARLY HEATHERBELL

—Mauve Lavender Spencer

Morse's Early Flowering Long Season Spencers are "fixed." They are remarkable for their floriferousness and length of blooming period. They produce handsome flowers with long stems and in every way are recommended for Florists.

These first class novelties should not only be grown by Florists, but will be valuable for all the Southern States, Hawaiian Islands and all countries with hot and tropical climates. The season of flowering is a long one and we have had them in flower from February to June and still flowering.

All Catalogue Houses should have these splendid new Sweet Peas.

Seed will be supplied by Seed Dealers, whom we are supplying direct.

(New crop Yarrowa is now being harvested and we expect to make early delivery to the Trade.)

Florists are requested to get further information concerning these grand novelties from the Trade.

C. C. MORSE & CO., Wholesale Seed Growers
SAN FRANCISCO, CAL.

GERANIUMS

We have a splendid stock of 2-in. and 3-in. Geraniums at \$2.00 per 100, \$18.50 per 1000 for 2-in.; and \$3.00 per 100, \$25.00 per 1000 for 3-in. We will send one thousand made up of an assortment of 50 each of 20 varieties, our selection, for \$18.50 per 1000 for 2-in., and \$25.00 per 1000 for 3-in.

POMPON CHRYSANTHEMUMS

We list over 100 varieties, \$2.00 per 100; \$18.50 per 1000.

	2-in. 100	2-in. 1000	3-in. 100	3-in. 1000		2-in. 100	2-in. 1000	3-in. 100	3-in. 1000
ALYSSUM, Dwarf and Giant.....	\$2.00	\$18.50	\$3.00	\$25.00	PARLOR IVY, S. Scandens.....	\$2.00	\$18.50	\$3.00	\$25.00
BEGONIA, Vernon	2.00	18.50	3.00	25.00	SALVIA, Bonfire and Zurich.....	2.00	18.50	3.00	25.00
COLEUS, ten varieties.....	2.00	18.50	3.00	25.00	SENECIO ARGENTEUS (or Dusty Miller)	2.00	18.50	3.00	25.00
CUPHEA PLATYCENTRA	2.00	18.50	3.00	25.00	SWAINSONA, White.....	2.00	18.50	3.00	25.00
LEMON VERBENAS, six varieties.	2.00	18.50	3.00	25.00					
MOONVINES	2.00	18.50	3.00	25.00					

CABBAGE. All Head, Ball Head, Flat Dutch, Savoy and other varieties \$1.00 per 1000; 10,000 and over, 85c. per 1000.

CELERY. White Plume, Giant Pascal and Golden Heart, \$1.00 per 1000; 10,000 and over, 85c. per 1000.

CASH WITH ORDER.

R. VINCENT, Jr., & SONS CO.,

**WHITE MARSH,
MD.**

LILY OF THE VALLEY PIPS

Danish and German Stock

Booking Orders now for
1916 Crop

LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

Valley

GERMAN, SWEDISH
AND DUTCH PIPS

CHAS. SCHWAKE & CO., Inc.

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co..... 31	Cowee, W. J..... 20	Guttman & Ray- nor..... 22	McHutchison & Co..... 4	Pennock-Meehan Co..... 21	Smith, Elmer D. & Co..... 4
Albany Cut Flower Ex..... 22	Craig, Robt. Co. 5	Hail Association. 30	McManus, Jas..... 22	Pierce Co. F. O. 31	Smith, P. J..... 22
Allen, J. K..... 23	Crawbuck, Geo. W. Co..... 23	Hart, Geo. B..... 22	McConnell, Alex. 16	Pierson, A. N..... 4	Smith & Fetters. 17
Anderson, S. A.. 17	Dards..... 16	Henderson, A. & Co..... 15	MacNiff Horticul- tural Co..... 13	Pierson, F. R..... 4	Smith, W. & T. Nursery Co..... 5
Anglin & Walsh. 4	Davenport, A. M. 13	Hess & Swoboda. 17	Marshall, W. E. & Co..... 15	Pino-Lyptol Co.. 29	Smyth, Wm. J.. 17
Aphine Mfg. Co. 29	Davy Tree Expert Co..... 12	Hews, A. H. & Co..... 28	Metropolitan Ma- terial Co..... 30-31	Poehlmann Bros. Co..... 20	Stumpp, G. E. M. 16
Badgley & Bishop, Inc..... 22	Dreer, H. A..... 30	Hill, E. G. Co... 20	Michell, H. F. Co..... 15	Randall's Flower Shop..... 16	Thorburn, J. M. & Co..... 15
Barrows & Son.. 13	Dorner, F. & Sons Co..... 4	Hill, D. Nursery Co..... 5	Michigan Cut Flower Ex..... 20	Reed & Keller... 20	Totty, Chas. H.. 12
Bayersdorfer, H. & Co..... 19	Dunlop, John H. 17	Hitchings & Co. 32	Millang, Chas... 22	Reid, Edw..... 20	Traendly & Schenck..... 22
Bay State Nur- series..... 5	Dysart, Robt... 23	Holland Nurser- ies..... 5	Millang, Chas... 22	Reuter's..... 17	United Cut Flower Co..... 23
Bobbink & At- kins..... 5	Eastern Chemical Co..... 29	Holm & Olson... 16	Moninger, J. C. Co..... 31	Riedel & Meyer.. 22	Valentine, J. A.. 16
Boddington, A.T. 5	Edwards Folding Box Co..... 20	Hudson Naviga- tion Co..... 28	Moore, Hentz & Nash..... 22	Riggs, W. A.... 4	Vick's, James Sons..... 15
Bolgiano & Son. 15	Elliott Auction Co..... 4	Irwin, R. J..... 15	Morse, C. C. & Co..... 2	Robinson, H. M. & Co..... 22-23	Vincent, R. Jr., & Sons Co..... 3
Breck, J. & Sons. 15	Elliott, W. H... 4-5	Jacobson, S. & Sons..... 31	Murray, Samuel.. 16	Roehrs, J. Co... 4	Wants, For Sale. 27
Breitmeyer's, J. Sons..... 16	Ernest, W. H... 30	Kasting, W. F. Co..... 20	National Nur- seriesman..... 5	Roland, Thomas. 18	Ward, R. M. & Co..... 6
Budlong, J. A... 20	Esler, J. G..... 30	Keller, J. B. Sons..... 16	Nicotine Mfg. Co..... 29	Rolker, A. & Sons..... 5	Weber, F. C.... 17
Bunyard, A. T... 16	Evans, J. A. Co. 31	Kerr the Florist. 17	Niessen, Leo Co. 20	Rosery, The.... 16	Weiss, Herman.. 23
Burnett Bros... 15	Eyres..... 17	Kervan Co..... 22	Nut Grower... 27	Salter Bros..... 17	Welch's..... 20
Burpee, W. A. & Co..... 15	Farquhar, R. & J. & Co..... 15	King Construc- tion Co..... 30	Ouwkerkerk, P... 5	Schling, Max... 16	Welch Bros. Co. 20
Campbell, Collin. 29	Foley Mfg. Co.. 31	Knoble Bros... 17	Palisades Nur- series..... 13	Schwake, Chas. & Co..... 3	Wood, Patrick... 23
Carnation Support Co..... 5	Ford, W. P..... 22	Kramer, F. H... 17	Palmer, W. J. & Son..... 17	Sharp, Partridge & Co..... 31	Wood Bros..... 13
Carter's Tested Seeds, Inc..... 14	Ford, M. C..... 22	Kroeschell Bros. 31	Park Floral Co.. 16	Sheridan, W. F.. 22	Woodrow & Mar- ketos..... 20
Childs, John Lewis..... 13	Froment, H. E.. 22	Kuebler, W. H.. 22	Parshelsky Bros. 31	Siebrecht, Geo. C. 25	Young, John & Co..... 22
Clarke's, D. Sons. 16	Galvin, Thos. F. 17	Lager & Hurrell. 13	Pellicano, Rossi & Co..... 18	Siebrecht, W. R. & Co..... 22	Young & Nugent. 16
Clucas, R. W.... 13	Gasser Co., J. M. 17	Lange, H. F. A.. 17	Penn the Florist. 17	Siggers & Sig- gers..... 31	Zinn, Julius... 16
Coan, J. J..... 23	Graham, Adam & Son..... 17	Leonard Seed Co. 15		Skidelsky, S. S. & Co..... 15	Zvolanek, Ant. C. 15
Cooke, Geo. H... 16	Grey, Thos. J. Co..... 15	Loechner & Co.. 3		Small, J. H. & Sons..... 18	
	Gude Bros. Co.. 16				
	Gunther Bros... 23				

**FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 24, 25, 26, 27**

HYDRANGEAS FOR SUMMER-BLOOMING

We have an unusually fine stock of hydrangeas,—fine symmetrical plants, well shaped and well budded. They are just beginning to bloom and will remain in bloom during July and August. These plants are in great demand at summer resorts for lawn and piazza decoration.

We have a fine lot of Otaksa, strong plants in 5 inch pots, one to two flowers each, at \$3.00 per dozen; also in 6 inch pots, three to four flowers each, with buds well advanced, showing color, at \$9.00 per dozen.

We offer, also, the following varieties in 14-inch tubs: Otaksa and the new French varieties,—Avalanche, Fraicheur, E. G. Hill, La Lorraine, Mme. Maurice Hamar, Mme. E. Mouillere, Mlle. Renard Gaillard, and Radiance. These are good sized plants in tubs, very well budded. \$3.00 and \$4.00 each.

We have, also, fine specimen plants of Otaksa in half-barrels—fine large specimens, well budded. \$10.00, \$12.50 and \$15.00 each.

BOXWOOD

Pyramids, 3 ft. high, \$2.50 each; 3½ ft. high, \$3.00 each; 4 ft. high, \$4.00 each.

FERNS

Nephrolepis elegantissima compacta, 2¼-inch pots, \$6.00 per 100; 3½-inch, \$3.00 per dozen; 6-inch, \$6.00 per dozen.

Nephrolepis elegantissima, 2¼-inch pots, \$6.00 per 100; 6-inch, \$6.00 per dozen; 8-inch, \$12.00 per dozen.

Nephrolepis Teddy, Jr., 2¼-inch pots, \$6.00 per 100; 3½-inch, \$2.00 per dozen, \$15.00 per 100; 6-inch, \$6.00 per dozen; 8-inch, \$12.00 per dozen.

Nephrolepis Smithii, 3½-inch pots, \$3.00 per dozen; 5-inch, \$6.00 per dozen.

Nephrolepis muscosa, 3½-inch pots, \$3.00 per dozen.

DRACAENA INDIVISA

Fine large plants for centers of large vases—8-inch pots, \$2.00, \$2.50 and \$3.00 each.

FICUS ELASTICA

Fine plants, 6-inch pots, \$6.00 and \$9.00 per dozen.

ENGLISH IVY

Strong plants, 4-inch pots, bushy, \$12.00 per 100.

F. R. PIERSON CO., Tarrytown, New York

BEGONIAS

	Per 100	Per 1000
Mrs. J. A. Peterson, 2 1-4-in. pots	\$25.00	\$200.00
Cincinnati, 2 1-4-in. pots	15.00	140.00
Lorraine, 2 1-4-in. pots	12.00	110.00

CYCLAMEN

Separate colors, finest strain, extra strong 3-in. pots
\$8.00 per 100, \$70.00 per 1000

JULIUS ROEHRS COMPANY

RUTHERFORD, N. J.

AFTER MEMORIAL DAY

Fill up your empty benches with

Asparagus Plumosus Nanus

SEND FOR PRICES

W. H. ELLIOTT,

**BRIGHTON,
MASS.**

LILY BULBS

Fall Shipment from Japan

Prices quoted F.O.B. New York, Chicago, Denver, San Francisco and London (Ont.)

Write for quotations stating quantity, variety and size required.

McHUTCHISON & CO. The Import House
95 Chambers St., New York

OLDEST AUCTION HOUSE

IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co
42 Vesey St., New York

BEDDING PLANTS

Geraniums S. A. Nutt, Ricard, Poitevine, Sallerol. Salvias, Helitropes, Marguerites, Fuchsias, Vincas Begonias (Semperflorens), Petunias, Verbenas, Lobelias.

ALL AT STOCK

PRICE ON APPLICATION

W. A. RIGGS, Auburndale, Mass.

GARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ELMER D. SMITH & CO.
CHRYSANTHEMUMS

Ask for Catalogue

ADRIAN, - - - MICH.

A. N. Pierson, Inc.
CROMWELL, CONN.

Bedding Plants and Roses

ANGLIN & WALSH CO.

Williamsbridge, N. Y.

Send for Monthly Plant Bulletin

Boddington's Gigantic Pansies

BODDINGTON'S "CHALLENGE."

This mixture contains all the finest Giant strains—of the leading Pansy Specialists in the world—the Giant self-colors, the Giant striped and margined, and the Giant blotched, etc., all carefully mixed in proportion. ½ trade pkt. 25c., trade pkt. 50c., ¼ oz. 75c., ¼ oz. \$1.50, ½ oz. \$2.75, oz. \$5.00.

SIM'S GOLD MEDAL MIXTURE.

Was awarded the First Prize and Gold Medal at the International Horticultural Exhibition, held at the Grand Central Palace, New York City, April, 1913. This splendid mixture is the result of years of painstaking selecting on the part of Mr. William Sim, Cliftondale, Mass. We are offering seed from the originator.

Trade pkt. 75c., 3 pkts. for \$2.00, ¼ oz. \$3.50.

	Tr. pkt.	¼ oz.	Oz.
GIANT TRIMARDEAU. Mammoth flowering, and in a good range of color....	.15	.50	1.50
GIANT MASTERPIECE (Frisled Pansy). Petals beautifully waved; exquisite colors .....	.25	1.25	4.00
GIANT MADAME PERRET. Rich wine colors .....	.15	.85	3.00
GIANT LORD BEACONSFIELD. Deep purple violet, top petals light blue....	.15	.50	1.50
GIANT GOLDEN QUEEN. Bright yellow; no eye.....	.15	.60	2.00
GIANT GOLDEN YELLOW. Yellow; brown eye .....	.15	.75	2.50
GIANT PRESIDENT MCKINLEY. Golden yellow, large, dark blotch.....	.15	.85	3.00
GIANT WHITE. Violet spot.....	.10	.60	2.00

5% Discount for Cash with Order.

Seeds for Present Sowing

	Tr. pkt.	½ Tr. pkt.
CALCEOLARIA, Boddington's Perfection Mixed.....	\$1.00	\$0.60
CINERARIA, Boddington's Matchless Mixed.....	1.00	.60
CINERARIA, Boddington's Stellata Mixed.....	1.00	.60
MIGNONETTE, Boddington's Majesty. The finest of all the fancy varieties of Mignonette for Winter forcing	Per oz., \$7.50	1.00 .60
PRIMULA Sinensis, Boddington's Matchless Strain. Pure white, rose, scarlet, orange, royal blue and mixture.....		1.00 .60
PRIMULA obconica gigantea. Lilac, rosea, Kermesina, pure white and mixture.....	.50	.30
PRIMULA malacoides. Lilac, rose and white. collection of 3 varieties, \$1.25.	Tr. pkt. 50c.;	
SCHIZANTHUS Boddingtonii. Select hybrids 3 for \$2.00.	Tr. pkt. 75c.;	

Asparagus Seed

PLUMOSUS NANUS. True greenhouse grown. 100 seeds 50c., 250 seeds \$1.00, 1000 seeds \$3.50.
PLUMOSUS NANUS. California grown. 100 seeds 50c., 250 seed 75c., 1000 seeds \$2.50.

Palm Seeds, Now Ready

	100	1000
ARECA lutescens	\$1.00	\$7.50
KENTIA Belmoreana	1.00	7.50
KENTIA Forsteriana	1.00	7.50

Arthur T. Boddington Co., Inc.

128 Chambers Street,
NEW YORK

EXTRA STIFF No. 9 ROSE STAKES

Per 1000

Length	Straight	Self-tying
3 feet	\$9.60	\$11.60
3 feet 6 inches	10.75	12.75
4 feet	11.90	13.90
4 feet 6 inches	13.05	15.05
5 feet	14.20	16.20
5 feet 6 inches	15.35	17.35
6 feet	16.50	18.50

The Carnation Support Co., Connerville, Ind.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY.
Small, medium and large sizes supplied.
Price list now ready.

THE D. HILL NURSERY CO.
Evergreen Specialists. Largest Growers in America.
BOX 415, DUNDEE, ILL.

BOBBINK & ATKINS

Nurserymen, Florists
and Planters

RUTHERFORD, NEW JERSEY

ROBERT CRAIG CO. ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

TREES

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties.

Sturdy, choice stock that can be depended upon. Send for catalog and special trade prices.

The Bay State Nurseries

North Abington
Mass.

SHRUBS

This New England soil and climate produces fine sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate.

ROSES

NEW YORK STATE TWO YEAR FIELDGROWN, FALL DELIVERY
POLYANTHAS: Rose Orleans, Cutbush, Jessie; Climbing: Excelsa, Tausendschoen, Perkins, White Dorothy, Crimson Rambler, Gardenia, American Pillar; H. P. Magna Charta, Laing, etc.; H. T. Testout, Teplitz, Killarney, Beauty, Kaiserin. Address

AUGUST RÖLKER & SONS, 51 Barclay Street NEW YORK
or P. O. Box 752

YOUNG ROSE STOCK

GRAFTED AND OWN ROOT

W. H. ELLIOTT, - - Brighton, Mass.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
HATBORO, PA.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St. Woburn Heights P. O. No 1, Hoboken N. J.

BERMUDA BULBS

Delivery July—August

Bermuda climate is tropical and bulbs raised there are more likely to flower much earlier than the same varieties grown elsewhere. The following bulbs are from a very old and reliable source, and much better than the average bulbs imported from Bermuda.



LILIUM HARRISII. This was once the most favorite Easter Lily. It is grown extensively throughout the islands and with some growers is still a favorite.

Size	Case contents	Per 100	Per case	Per 1000
5 to 7 inches	400	\$5.00	\$16.00	\$38.00
6 to 7 inches	335	6.00	17.00	48.00
7 to 9 inches	200	9.00	17.00	85.00
9 to 11 inches	100		20.00	200.00
11 to 13 inches	50		75c each	

AMARYLLIS JOHNSONI,

7 to 9 inches \$15.00 per 100

9 to 11 " 20.00 per 100

AMARYLLIS VITATTA,

7 to 9 inches \$20.00 per 100

9 to 11 " 30.00 per 100

PURITY FREESIAS,

$\frac{1}{2}$ to $\frac{3}{4}$ inch \$10.00 per 1000

$\frac{3}{8}$ to $\frac{1}{2}$ " 8.00 per 1000

FRENCH BULBS

Delivery August—September

Owing to the war in Europe deliveries of French bulbs may not be so easily made as usual, and early orders are advised. Freight rates are higher than in normal years, and war insurance, case charges, and other incidental costs connected with the importation of foreign merchandise are greater than ever. The bulbs offered as follows are of our own direct importation from the very best and most reliable source in France.

PAPER WHITE GRANDIFLORA. The most popular French bulb today. We are one of the largest importers of these bulbs in the world.

Size	Case contents	Per 500	Per 1,000	Per case	Per 10,000
12 cm. upward	1500	\$4.50	\$7.50	\$11.00	\$70.00
13 cm. upward	1250	5.00	9.00	11.00	80.00
14 cm. upward	1000	6.00	10.00	10.00	95.00
15 cm. upward	900	7.50		12.50	

GRAND SOLEIL D'OR (Yellow Paper Whites). Fine for Christmas—very popular and a profitable bulb to grow. Good for forcing.

\$2.00 per 100

\$20.00 per 1000

TRUMPET MAJORS. Single yellow early Narcissus the earliest of all the single Choice \$1.50 per 100—\$12.00 per yellows. Extra quality \$2.00 per 100—\$16.00 per 1000. 1000. Original case contents about 2000 bulbs.

ROMAN HYACINTHS. The earliest of all Hyacinths. Can be forced very early and grow freely and with little care.

Size	Case contents	Per 100	Per 1000	Per case
10 to 12 cm.	2500	\$12.00	\$21.00	\$50.00
12 cm. upward	2000	14.00	26.00	50.00
13 cm. upward	1700	18.00	35.00	58.00
14 cm. upward		36.00	70.00	

STOCK FOR IMMEDIATE DELIVERY.

JAPANESE BAMBOO CANES

Early orders are advised. The following are sold fob cars Bound Brook, N. J., only. Fine for staking Lillies, Mums, and all tall plants.

NATURAL CANES	
5 to 6 feet long.....	\$6.50 per bale of 1000
5 to 6 feet long.....	11.00 per bale of 2000
8 feet long.....	10.00 per bale of 1000
10 feet long.....	9.00 per bale of 500
EXTRA HEAVY	
5 feet long.....	\$12.00 per bale of 1000
6 feet long.....	16.00 per bale of 1000
COLORED GREEN	
3 feet long.....	\$10.00 per bale of 2000
3½ feet long.....	11.00 per bale of 2000
5 feet long.....	8.00 per bale of 1000
5 feet long.....	14.00 per bale of 2000

COLD STORAGE GIGANTEUM

Limited quantity only.

Plant now for early October flowering.

Size	Price
7x 9" \$8.50 per case of 100 bulbs, fob Bound Brook, N. J.	
" 7x 9" 22.00 per case of 300 bulbs, fob N. Y., Buffalo, or Cincinnati.	
" 8x 9" 22.00 per case of 250 bulbs, fob Boston.	
" 8x10" 23.00 per case of 250 bulbs, fob New York.	
" 9x10" 22.00 per case of 200 bulbs, fob New York or Philadelphia.	
" 9x11" 20.00 per case of 180 bulbs, fob New York.	

We also can supply *Lilium Speciosum Album* 7-9 for \$18 per case of 220 bulbs either fob Chicago or New York; and *Lilium Auratum* 9-10 for \$10 per case of 120 bulbs, fob Chicago. Deliveries now or later as required.

RALPH M. WARD & CO.

71-73 Murray St.

New York City

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Chrysanthemums

Plants in the late houses should be encouraged to make all the growth possible now. If any buds appear from now up to September they should be pinched off. If mildew is prevalent use sulphide of potassium—half ounce to a gallon of water and spray over and under the leaves. Plants that were benched during May will be benefited by some sort of nourishment now. This can be supplied in the form of bone meal and about half an inch of some well-rotted cow manure. This will help to keep the beds from drying out so often and keep the roots much cooler. It is necessary during this hot weather to give copious and frequent syringings to keep the temperature down as much as possible. Keep moist at the roots by watering when and where it may seem necessary. Keep green and black fly in check by light fumigation every 10 days, or oftener if necessary. Give plenty of ventilation.

Crotons

Crotons appreciate watering with liquid manure when well established in pots and in active growth, but heavy doses must be avoided. Damping down will now be necessary, morning, noon and night, and the plants should be examined each day and watered only if they need it, for even whilst growing they should not get in a saturated condition. Crotons should not be shaded too heavily or the naturally brilliant coloring of the leaves will become more somber. Frequent syringing benefits the plants and keep such insect pests as mealy bug, red spider and scale in check. Crotons, or codiaeums, as the botanists prefer to call them, succeed best in a warm, moist greenhouse. Propagation is easy. It can be done by syringing and mossing the tops, which if kept constantly moist will soon root.

Orchids

Cattleyas that are in active growth will require an abundance of water at the roots with a light syringing overhead two or three times a day. Damp the floors and benches well twice a day so as to create a humid atmosphere. All cattleyas that have completed their growth should be placed at the coolest end of the house or where they can be given a fair amount of air. The quantity of water should be lessened until only enough

is given to keep the plants from shriveling. Later you can give them more airy, cool, dry and sunny quarters, which will induce them to ripen up their growth. Very little water will be needed at the roots during this rest, but give a gentle syringing over the plants on bright days, which will help to keep the growths in good condition. All other orchids of the many species that will now be finishing up their growth should be removed to a cooler house that is very lightly shaded so as to prevent a second growth.

Raising Perennials

Plants from seeds sown now and transplanted when large enough into the border this fall and given some care as to watering will get well enough established to stand the winter. The seed should be sown in frames where it will be convenient to water them. Any good light soil that has been made fine will be suitable. Keep shaded and moist until they have started. When the seedlings are large enough to handle prick them out and keep shaded for a few days in order to give them a start. They can be transplanted again into cold frames where they can stay during winter and have slight protection in severe weather and from the bright sunshine.

Preparing Compost for Carnations

All good growers know that without a congenial compost from which to draw the necessary food supply, returns from the plants will be very unsatisfactory. In reality there is no dull season for the carnation grower, for there is always something to be looked after. Sod that was piled up last fall and mixed with manure at the rate of three of soil to one of manure will not require anything else outside of a good turning over. Always keep the field clear of weeds and it will be time well invested. Do not allow the compost to be overgrown with rank weeds which will soon draw much of the plant food that your carnations should enjoy.

Stock Plants

Take good care of all stock plants. Do not let them get overgrown with weeds, but go over them once every ten days with the cultivator and weed where necessary. See that there is a durable label to each variety if you want them true to name for propagation later on.

Next Week: Aerides; Bulb Compost; Chrysanthemums; Eucharis amaranica; Smilax; Time to Think of Christmas.

INDEX TO VOLUME XXIII

Those of our subscribers who bind their volumes of Horticulture, or who for any other reason may wish to have the index to the contents of Vol. XXIII—January 1 to June 30, 1916—will be supplied on application. THEY ARE NOW READY.

HORTICULTURE

VOL. XXIV

JULY 1, 1916

NO. 1

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 147 Summer Street, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.
 Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—General View of the San Francisco Exhibition American Sweet Pea Society	
NOTES ON CULTURE OF FLORISTS' STOCK—Chrysanthemums—Crotons—Orchids—Raising Perennials—Preparing Compost for Carnations—Stock Plants—John J. M. Farrell.....	7
ROSE GROWING UNDER GLASS—Tying Young Beauties—Disbudding—Picking Bottom Leaves on Beauties—Scratching Over the Benches—Arthur C. Ruzicka.....	9
THE LATE WM. F. KASTING—Patrick O'Mara.....	9
SWEET PEA SHOW AT SAN FRANCISCO—Illustrated	10
CLUBS AND SOCIETIES—National Sweet Pea Show—Houston Convention Outlook, Illustrated—The Houston Trade Exhibit—Tarrytown June Exhibition—Rose and Strawberry Show—Coming Exhibitions—Club and Society Notes	11-12
AMERICAN ASSOCIATION OF NURSERYMEN.....	13
SEED TRADE—American Seed Trade Association—One Week's Imports—Notes	14
OF INTEREST TO RETAIL FLORISTS: New Flower Stores.....	16
Flowers by Telegraph.....	17
NEWS ITEMS FROM EVERYWHERE: Boston, Chicago, Washington, New York, Pittsburgh, Philadelphia, St. Louis.....	18-19
OBITUARY—William Bell—George Shoemaker.....	19
FLOWER MARKET REPORTS: Boston, Chicago, Cincinnati, New York, Philadelphia Pittsburgh, St. Louis, Washington.....	21 23
DURING RECESS—The Waretown Opening, Illustrated—Intrenched Against the Mosquito, Illustrated—Field Day at Cromwell	28
MISCELLANEOUS: New Corporations—Business Troubles.....	16
News Notes	16-30
Visitors' Register	23
Cucumber Mosaic Disease.....	29
Greenhouses Building or Contemplated.....	36
Patents Granted	36

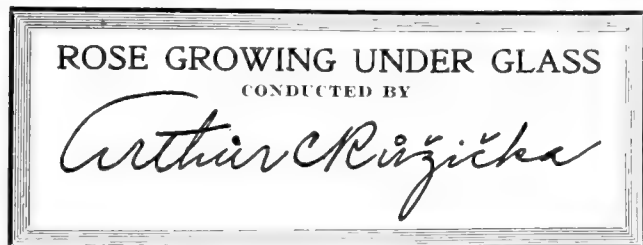
There has been much lamentation ever since the European war started, over our inability to get potash fertilizer as heretofore and the serious consequences to follow this potash famine. Commenting upon the various schemes that have been proposed for utilizing home sources of potash supply the New York Sun editorially remarks that "Our market, indeed, has greatly contracted; whereas our farmers once used nearly a million tons, now many except those engaged in citrus fruit growing are learning to do without it." This comes pretty near "hitting the nail on the head." The fact is that very few soils are hopelessly deficient in the necessary elements for plant growth. The trouble is

mainly that we do not till the soil and really stint ourselves in the proper use of it. After all, soil acts principally as a sponge or medium to store and give out moisture and plant food. The deeper the soil the greater its capacity for storage and the more it is worked the more gradual and continuous will the supply from which plant tissues are built, be given out to the crop. The great defect in agriculture and horticulture as practiced in this country is that we do not avail ourselves as we should of the whole volume of material at our command. It has been stated that if we were to visit the south of Italy in late July or early August when the grain crops have been harvested we should find the farmers there turning the soil each year to an ever-increasing depth. In this way they bring about a disintegration of the soil elements and make the latent material into available condition for use, depending on atmospheric action to bring the ground to a condition of fertility without the addition of any fertilizer, comparatively little of that being within their reach, yet any diminution of the annual crop would seriously affect the welfare of the people. Many of the light soils of the eastern states are particularly adapted to improvement by deeper cultivation. The deeper working of the ground makes possible the retention of more moisture and will help to carry crops through dry weather where, under lighter cultivation, they would suffer or perhaps perish. Rather than pay the present abnormal price of potash it would seem wise to invest a fraction of the cost of this material in deep and thorough cultivation and there need be no fear of the result. There are comparatively few field or garden crops that require a great amount of potash.

Advertising value

Our esteemed New York contemporary states as its opinion that "the value of an advertisement is gauged by the impression it makes upon the mind." The Western Union Telegraph Company in an announcement sent out this week says that "the strength of advertising lies in its *means of approach* and its ability to convince." "Means of approach" is certainly an improvement upon the previous definition of good advertising. Looking at it from HORTICULTURE's angle we would add one more desirable qualification, viz. *whom* it approaches and *whose* mind it impresses. HORTICULTURE has always taken pride in the quality and standing of the people who read it. Its reading matter has from the start been selected with "quality" as its first consideration in its contents and also as to the class of readers to whom it should appeal. Mere size of circulation, regardless of quality, we have never striven for. One letter received today says "Stop sending that papper. I get 4 pappers and I dont open any of them." Another letter just received says "Enclosed please find money order for One Dollar for subscription to HORTICULTURE. I would not be without it." Every trade paper has readers who believe in it but the supreme test of advertising value lies not so much in their number as in their character. It goes without saying that no good business man would go very far in search of customers such as the writer of the first quoted letter, while of such as the latter, one cannot have too many of them. So it is true that while the approach may be excellent and the "ability to convince," may be consummate, that is not yet sufficient for success for "the impression an advertisement makes upon the mind" must depend finally upon the quality of the minds it reaches.

The
 best fertilizer



Tying Young Beauties

It is best not to be in too much of a hurry to get the young Beauty plants tied up, for it will do them good to lie around a little, giving them a better chance to break from the bottom. This should not be carried too far, however, and as soon as the plants begin to be hard to syringe they should be tied up. It is best to tie to wires and not to stakes. This will give the grower a chance to tie the plants on a slant instead of straight up, which will induce them to break more freely from the bottom. We always use five wires to four rows of plants, which enables us to distribute the growth well along the wires, giving the plants plenty of room and making it much easier to syringe than it would be were all the growth crowded on four wires. Be careful not to tie the wood too tight, for it will double in thickness before the season is half over, and if the knots are tied too tight the string will cut in, thus shutting off a great deal of nourishment. When making braces on the ends of the benches, make sure that these are made well so that there will be very little give when the wires are stretched. These must be tight and it will take a good strong brace to hold fifteen wires, all pulling hard from the ends. The center braces will not have to be very strong, as they only hold the weight of the wire. They should never be made of heavy wood, as that would throw too much shade and be very clumsy to take down and handle when the houses have to be replanted. It will not be necessary to stretch all the wires at once, as only the bottom layer will be needed. Those should be put in and then stretched one after the other. It is best not to tie them securely at first as they may have to be taken up a little bit when the others are put on and never should the twists be sharp as the wire is wound around. By carefully tying the ends of the wires to the braces they can be untied next spring and used again next fall without any repair to the wire and this means a great saving in labor, especially on a large place.

Disbudding

Until the plants are big enough, it will be of advantage to the grower to see that the plants are kept disbudded, never allowing the buds to get to any size. It will not take very long to do this work and the time will be well paid for later on. The proper time to remove the buds is as soon as they show. Take them with at least one leaf and if the plant has plenty of foliage take them with two leaves right down to a good strong eye. This will insure a strong break which will grow for a while before it again carries a bud. Never take only the buds while disbudding, for the first eye below the bud is not strong enough to send forth a good break and if the bud is removed without taking the eye with it a weak growth will result which will no doubt bear a bud again before it gets three inches long. Growth like that is not good for the plants, making them hard to start going right. With Beauties there will be plants that will make too many breaks from the bottom. Keep only the strongest ones and those nearest the soil; the others should be rubbed off as soon as they appear.

Were all the breaks left on there would be too many for the roots to carry.

Picking Bottom Leaves on Beauties

As soon as the plants get on to the first wires it will be necessary to go over them and remove the most bottom leaves that are right against the soil. This is done to insure an air space between the bottom leaves and the soil, thus giving no chance for moisture to condense under the leaves and encourage an attack of spot. With the weather we have been getting, this part of the growing will require especial attention for if neglected spot will almost surely set in, and with things favorable will spread all over the plants, nearly ruining them besides making a great deal of extra work. Be careful to remove only the leaves that actually touch the earth and not take the leaves half way to the first wire. Were this done the plants would suffer and harm would result. Have something along, and as the leaves are picked take them up and carry them away to be disposed of outside. Burning them would be the best, and if it is not possible to do so at once, spread them out somewhere to dry quickly and then burn right away. While these leaves are being picked, see that there is no spot left behind. Be very careful on the back rows as these are more apt to start spot than where there is plenty of light.

Scratching Over the Benches

This will have to be done quite often for there will be plenty of weeds as a rule. Care should be taken not to break up the soil too fine for it will be necessary to have the surface rough to make it easier to water, the rough lumps of soil and sod making the water stay where it is put instead of running all over the bench as it will if the soil on the surface were smooth. As soon as the plants are established it will be necessary to scratch the benches over very lightly so as not to disturb the roots especially with the sort of weather we are getting most of the time.

The Late Wm. F. Kasting

EDITOR HORTICULTURE.

Dear Sir:—Being away from home when W. F. Kasting died, the news was delayed in reaching me. In his passing away an outstanding figure has gone from the S. A. F. It was my privilege to be intimately associated with him since 1901, when he was elected vice-president, and I have good reason to know and appreciate his untiring, unselfish work in behalf of organized horticulture. A born organizer he brought into the field a force which is uncommon in our ranks and which he used unstintingly for the general good. It is meet that we should all pay loving and appreciative tribute to his memory. His like does not pass this way often and he leaves a void which it will be difficult to fill.

His personality was a tonic for those who were fortunate to come in contact with him. Whole-souled and generous to a fault, large hearted and broad minded, far above pettiness, he was an inspiration to those who labored with him and a tower of strength in every crisis.

The pity is that he was not spared for many more years to us. Of him it may be said with truth, "When the gods love die young."

Very truly yours,

Patrick J. Mara

SWEET PEA SHOW AT SAN FRANCISCO

The second annual Sweet Pea Exhibition of the San Francisco Branch of the American Sweet Pea Society was held in the Concert Room of the Palace Hotel, on June 9th and 10th. The exhibition was larger than the previous year's, and the superior quality of the sweet peas throughout, was remarked on by all who had seen the previous exhibition. The gardeners and amateurs have come to realize that the cordon system is the best method of growing Spencer sweet peas for exhibition, and some of the vases shown showed wonderful culture and great intelligence on the part of the growers in the care of their plants.

The entries were much more numerous and the hall was filled to overflowing. The attendance was a little disappointing on the opening day, but on the second day the show was visited by crowds. It is too bad that the finances of the society would not permit of more extensive publicity, but when it is realized that the entire expenses of the San Francisco show falls on a few of the local growers and seedsmen it can be realized why more could not be done along these lines.

Sweet pea enthusiasm has struck the San Francisco neighborhood and it is hoped that the show can be made an annual affair. Unfortunately the detail work falls on the shoulders of a few who are the least able to give the time at this season of the year. It is hoped that some arrangement can be made in the future whereby the duties can be distributed so that there will be no danger of the Assistant Secretary giving up his position. The judges were Eric James, president of the Pacific Coast Horticultural Society, and John McLaren, supt. of Golden Gate Park. The decorative classes were judged by Mr. Sanborn, Jr., of Oakland, in conjunction with Miss Evelyn McLean, of San Francisco.

Prize Winners.

Vase of Fiery Cross, prizes donated by W. Atlee Burpee & Co. 1st, John W. Aitken, gard. to Chas. W. Haas, Menlo Park; 2nd, S. M. Spalding, gard. David W. Slade. Six vases Spencer, prize donated by W. Atlee Burpee & Co. 1st, John W. Aitken, with magnificent vases of Constance Hinton, Mrs. Hugh Dickson, Capt. Travers;



C. C. Morse & Co.'s Exhibit at San Francisco Exhibition American Sweet Pea Society.

2nd, Mrs. Louis Stern, Menlo Park, gard. David Bassett, with fine examples of Wedgwood, Doris Usher and Scarlet Emperor.

Twelve varieties Spencer, prizes presented by C. C. Morse & Co. 1st, John W. Aitken. This was one of the finest lots in the show, the outside vase being Royal Purple; 2nd, Frank C. Thompson, San Francisco; 3rd, Emile Ralston, San Jose.

Five vases Spencer, prize donated by the Hallowell Seed Co., Emile Ralston, San Jose.

Nine vases Spencer, prize donated by Waldo Rohnert. 1st, John W. Aitken. Mr. Aitken in this class showed some wonderfully fine colors, the vase of Barbara winning the prize for the best vase in the show. The quality of the blossoms in the first prize vase was quite remarkable and would have done credit to some of the oldest exhibitors in England; 2nd, Mrs. Louis Stern. The length of stem here was truly remarkable. The outstanding vase was "The Squire."

Three vases Spencer, prizes donated by Braslan Seed Growers Co., Inc. This proved to be the most popular class in the exhibition, there being no less than twenty entries. 1st, John W. Aitken; 2nd, Mrs. Louis Stern. The vase of Illuminator in this exhibit was superb and was awarded 2nd prize as the second best vase in the show.

Vase Elfrida Pearson, prize presented by L. D. Waller Seed Co., George Nunn, Menlo Park, gard. to Sigmund Stern.

Any Red Spencer, prizes presented by W. Atlee Burpee & Co. 1st, Mrs. Louis Stern, variety shown "The Squire"; 2nd, S. M. Spalding, Menlo Park, gard. David W. Slade.

Any Lavender Sweet Pea, prizes donated by W. Atlee Burpee & Co. 1st, S. M. Spalding, variety shown, "Asta Ohn"; 2nd, David Patterson, Menlo Park.

Vase of mixed Spencers, prizes donated by C. C. Morse & Co. 1st, Mrs. Geo. McLean, San Francisco; 2nd, Philip Werner, San Francisco.

Most tastefully arranged vase of Spencers, open to ladies only. Fourteen vases shown, Mrs. R. H. Grey, Piedmont, with a charming combination of New Miriam Beaver and Blue Picotee, with an odd spray of White Spencer.

Bride's bouquet and Ladies' corsage bouquet. 1st, Art Floral Co., San Francisco. White Spencer were used for the bride's bouquet and New Miriam Beaver for the corsage bouquet. The judges had no easy time in this class, as most creditable exhibits were made by the Francis Floral Co. and MacRorie & McLaren Co. The latter company also made a very attractive display of floral pieces designed in sweet peas.

The co-operation of the florists was much appreciated by the management of the show. The trade rallied to the support of the management and there were no fewer than four large representative collections and this added tremendously to the body of the exhibition.

C. C. Morse & Co. put up about 200 square feet, comprising leading Spencer varieties, with a large number of their choice seedlings from their noted workshop. Three large uprights comprised the main background of the exhibit, the varieties used being New Miriam Beaver, Scintillator and Henry Ohn. Scintillator is one of this firm's novelties for 1916-1917 and is a brilliant salmon orange, striped on cream ground and is particularly beautiful in the sunlight or under artificial light. Culebra, is a mauve, striped on white ground, but is a truly duplexed flower. Henry Ohn is a pink on cream, also duplexed, and is among the most promising novelties for future years. The new Sun-proof Scarlet will be welcomed by all growers.

W. Atlee Burpee & Co., Philadelphia, Pa., sent a splendid display from their Lompoc Seed Farm. The center was occupied with a cross, made up of the well-known variety Fiery Cross. The whole exhibit was very tastefully set up. Included were some of this firm's new Early Flowering Spencers, and the following were given awards of merit:—Fordhook Pink and White;

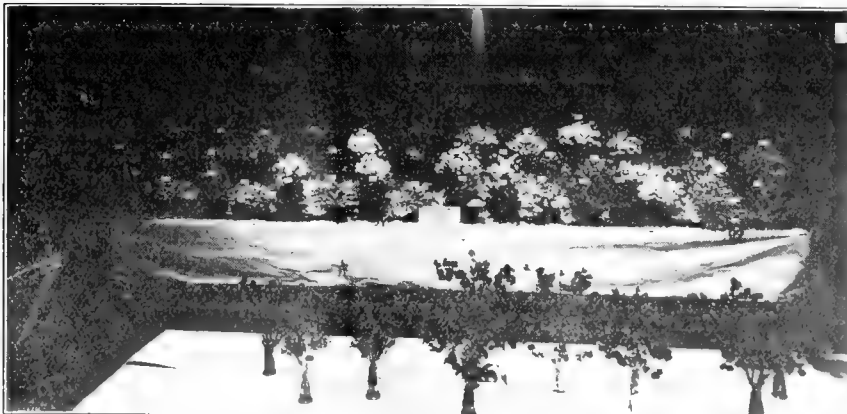


Exhibit of W. Atlee Burpee & Co. at San Francisco American Sweet Pea Society.

Fordhook Countess; Fordhook Hercules; Fordhook King. This exhibit was in charge of Harry F. Buckman, from the Floradale Seed Farm at Lompoc.

The L. D. Waller Seed Co., of Guadalupe, put up a delightfully fresh exhibit and one marveled at the condition of the flowers after their journey. The large exhibit of R. F. Felton, Edward Cowdy and Dobbie's Cream made a striking background. The quality of R. F. Felton was particularly good. This firm also showed a new cream, under the name of "New Buttercup." The depth of the color was quite remarkable.

Waldo Rohnert had a meritorious display of all the standard varieties of Spencers.

NATIONAL SWEET PEA SHOW.

Bar Harbor, Maine, July 15th-16th.

We wish to call the attention of those interested in this Show to the following schedule of transportation service:

E. S. S. Co., Boston-Bar Harbor. All Water.
Leave Boston 6.00 P. M. every day except Sunday.

Arrive Bar Harbor noon next day.
Leave Bar Harbor 1.30 P. M. every day except Sunday.

Arrive Boston 5.15 A. M.
E. S. S. Co., New York-Bar Harbor. All Water.

Steamships Massachusetts and Bunker Hill, leave New York daily at 6 P. M. Connection at Boston as above.

M. C. R. R. Co., Boston-Bar Harbor. All Rail.

Leave North Station, Boston, 10.00 A. M. and 10.00 P. M.

Arrive Bar Harbor 6.05 P. M. and 8.20 A. M.

Leave Bar Harbor 9.45 A. M., 4.15 P. M., or 9.00 P. M.

Arrive Boston 9.00 P. M., 4.45 A. M., or 7.30 A. M.

Maine Cent. R. R. Co., New York-Bar Harbor. All Rail.

Leave New York 7.15 P. M.

Arrive Bar Harbor 12.30 P. M. (Next day)

Leave Bar Harbor 3.00 P. M.

Arrive New York 7.56 A. M.

It is very essential that those intending to attend the Sweet Pea Exhibition should engage sleeping accommodations at once, otherwise discomfort may ensue, as travel "down east" is very heavy at this season.

HOUSTON CONVENTION OUT-LOOK.

We have received copies of letters from El Paso, Alvin, Dallas, Sherman

ing a large and enthusiastic attendance in Houston next August.

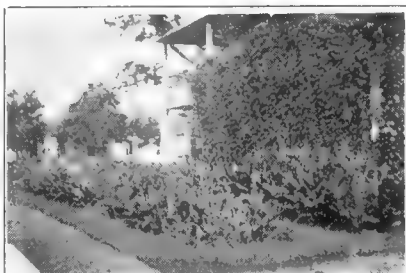
THE HOUSTON TRADE EXHIBIT.

Secretary Young is now prepared to receive space reservations for the convention exhibit in Houston. There is a great deal of enthusiasm among the southern florists, and you may take it from me that there has never been an occasion when so many southern florists have been assembled in one body. There is not a question of doubt that this is now an opportunity for dealers to display goods and get them before the florists in this section at a very economical cost.

At our last two Texas conventions, we had something like 125 florists from within the state. We are expecting at least 200 florists this summer from within the state and it is reasonably believed that we will have 300 or 400 florists scattered through the South at this convention, which will give us at least 500 southern florists. This alone is worth while making an exhibit at the Houston Convention. There is a great interest throughout the country to take advantage of this trip to see the Southland, and I am convinced that we may expect several hundred florists from other sections of the United States. We have set our mark for 1,000 florists in attendance at the Houston Convention. Up to date, there has never been a convention when there has been given so much wide publicity as the Houston Convention. We are just beginning on this publicity work, and you may rest assured that we are not going to miss our mark very far.

Don't miss this opportunity. Send your reservation to Mr. John Young immediately and get the best space. As the indications are, we will have our hall crowded to the limit with trade exhibits. Attend to it now.

R. C. KEHR,
Vice-Pres. S. A. F.



Dreer's Canna Exhibit.



Tricker's Aquatic Garden



Suplt. Brock and Vice Pres. Kerr inspecting the work being done at the Convention Garden.

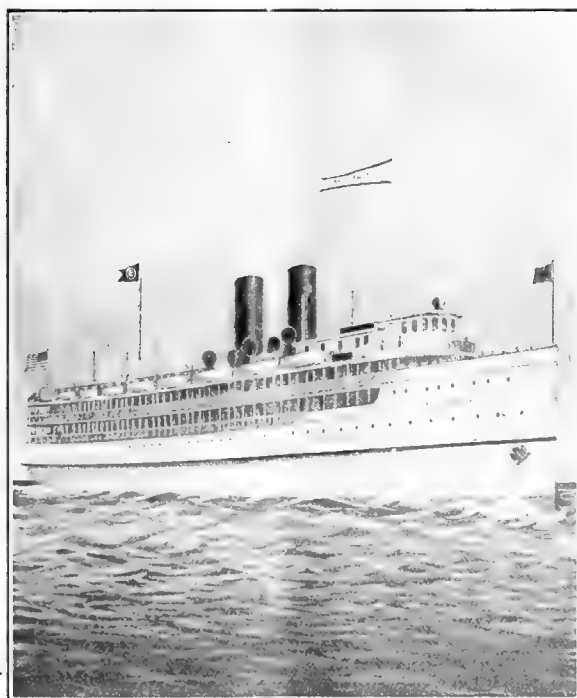
and other Texas cities, Nashville, Tenn., and Guthrie, Oklahoma, promis-

TARRYTOWN JUNE EXHIBITION.

The annual June exhibition of the Tarrytown (N. Y.) Horticultural Society of roses, sweet peas, strawberries, hardy flowers, etc., was held in the Y. M. C. A. building on Tuesday afternoon and evening, June 20. On account of the lateness of the season and the inclement weather, the exhibition was not up to the usual standard, but, taking everything into consideration, was equally as good as previous seasons.

The exhibits of hybrid tea and hybrid perpetual roses was excellent, and of strawberries was exceedingly fine. Owing to a continual downpour of rain the week previous, sweet peas were not exhibited as in previous years. The exhibits of the school gardens were particularly interesting and encouraging.

Chas. H. Tibbits' "excellence prize" was awarded to the F. R. Pierson Company for the best exhibit of the show. This consisted of the roses Ophelia, American Beauty, Francis Scott Key, Richmond, Hoosier Beauty, and Sweetheart or Mignon, beautifully arranged in baskets and flower bowls, which are now so popular; also other flowers, like gaillardias, coreopsis, and cornflowers. The judges of the exhibits were George Middleton, gardener for William Rockefeller, Tarrytown, Arthur Griffin, superintendent for Samuel Untermeyer, Yonkers, and



S. S. MASSACHUSETTS

On the "All Water Route" Between New York and Boston via Cape Cod Canal.

Henry Kastberg, superintendent for the Misses Masters, Dobbs Ferry.

The awards were as follows:—

1st. Hardy perennial flowers, Mrs. Carl Victor, gard. Thomas Lee; 2nd. Mrs. H. Darlington, gard. P. W. Papp; 3rd. Mrs. S. Hermann, gard. Abel Weeks.

3 qts. strawberries, 1st. Emil Berolzheimer, gard. Wm. Jamieson; 2nd. Dr. C. C. Brace, gard. Geo. McIntosh.

2 qts. do., Mrs. J. B. Trevor, gard. Howard Nichols.

1 qt. do., 1st. Dr. C. C. Brace; 2nd. Emil Berolzheimer.

1 qt. do., amateur, Miss Emily Millard.

12 H. P. roses, 1st. Mr. F. S. Wheeler, gard. John Orr; 2nd. Mrs. J. B. Trevor.

Col. outdoor roses, 1st. Gen. E. A. McAlpin, gard. John Woodcock; 2nd. Mrs. H. Darlington.

12 do., 1st. Gen. E. A. McAlpin; 2nd. John D. Rockefeller, gard. Wm. Woodger; another 2nd, Henry Sidenberg, gard. James Currie.

6 H. P., 1st. Mrs. John F. Dinkel; 2nd. James T. Lawrie.

3 H. T., 1st. John D. Rockefeller; 2nd. Mrs. S. Hermann.

6 var. outdoor roses, Gen. E. A. McAlpin.

3 var. do., John D. Rockefeller.

12 blooms, 1 var., Dr. C. C. Brace.

Vase roses, Mrs. H. Darlington.

Display climbers, Mrs. S. Hermann.

12 Druschki, 1st. Mrs. H. Darlington; 2nd. Gen. E. A. McAlpin; 3rd. Mrs. Carl Victor.

3 var. peonies, 1st. A. L. Gifford; 2nd. Mrs. H. Darlington.

Col. Dianthus, Mrs. E. Schwartz, gard. Henry Fuchs.

12 var. vegetables, Mrs. J. B. Trevor.

6 do., 1st. Dr. C. C. Brace; 2nd. Mrs. Carl Victor.

Digitalis, Mrs. H. Darlington.

Specimen palm, F. R. Pierson Company.

Outdoor blue flowers, 1st. Col. Jacob Ruppert, gard. Frank Heid; 2nd. Dr. C. C. Brace; 3rd. Henry Sidenberg.

Digitalis, Miss L. K. Curtiss; Mrs. H. Darlington, A. P. Husted prize for vase of digitalis.

Salvia globosa, Col. Jacob Ruppert, honorable mention.

ROSE AND STRAWBERRY SHOW.

The annual rose and strawberry exhibition of the Massachusetts Horticultural Society will be held at Horticultural Hall, Boston, Saturday and Sunday, July 1 and 2. Roses and strawberries will then be in their prime and the show will be one of the most interesting of the year's schedule. In addition many other seasonable plants, flowers and fruits will be on exhibition as well as collections of vegetables.

The show is free and will be open Saturday from 12 to 6, and Sunday from 1 to 6 o'clock.

WM. P. RICH, Sec'y.

CLUB AND SOCIETY NOTES.

The Paterson, N. J., Floricultural Society held a flower show on June 17, which was attended by several thousand visitors.

The Century Club of Scranton, Pa., held a summer show on Tuesday, June 20. It was a great success and the ladies who conducted are deserving of much credit. There were many visitors.

On June 23 the Rhode Island Horticultural Society held its annual June exhibition in the ball room of the Narragansett Hotel. The park department and R. I. Hospital were represented by large displays. The majority of the other exhibitors were amateurs. Robert Johnston, Joshua Vose and C. Hartstra served as judges.

The annual free Peony Show of the New Bedford, Mass., Horticultural Society was held on June 22, in the public library. D. F. Roy, supt. of the H. E. Converse estate at Marion and T. C. Thurlow's Sons of West Newbury were the leading exhibitors,

The danger sign —

To ignore it means sure tree destruction!



If you were to examine closely the trees on your place, you would probably see on some of them a tiny crevice in the bark. To you perhaps it would look very innocent. To the trained eye of a Davey Tree Surgeon it would mean danger!

The tree in the picture was sound and healthy—apparently—except for a little hole in the bark (photograph No. 1). But note what the Davey expert discovered after a little chiseling (photograph No. 2)—a condition of hidden decay so serious that the tree was but a mere shell, an easy victim for any severe storm! What is the real condition of YOUR trees? Have them examined NOW—by

Davey Tree Surgeons

Tree Surgery as they practice it is scientifically accurate and mechanically perfect. It is SAFE because it eliminates experiment. It endures. W. G. Carrington, Greenwich, Conn., writes: "The work you have done for me is the most wonderful example of tree surgery I have ever seen." Davey experts are the official choice of the U. S. Government. Every year of neglect adds 10 per cent. to 25 per cent. to the cost of saving trees. Write today for free examination and booklet illustrating Davey Tree Surgery.

The Davey Tree Expert Company

262 Elm St., Kent, Ohio.

(Operating the Davey Institute of Tree Surgery.) Accredited Representatives Everywhere.



COMING EXHIBITIONS.

July 1-2, Boston, Mass.—Rose and Strawberry Exhibition, Massachusetts Horticultural Society, Horticultural Hall.

July 14-15, Bar Harbor, Me.—Annual Show of American Sweet Pea Society.

July 20, Worcester, Mass.—Sweet Pea Exhibition, Worcester Horticultural Society.

August 24-25, Lewiston (Me.) Annual Flower Show, Gardeners' Union, Lewiston City Hall.

July 26-27, Southampton, N. Y.—Tenth Annual Flower Show, Southampton Horticultural Society.

August 3, Oyster Bay, L. I., N. Y.—Dahlia Show, Oyster Bay Horticultural Society.

August 11-12-13, Boston.—American Gladiolus Society, Horticultural Hall.

August 24, Worcester, Mass.—Gladiolus Exhibition.

Sept. 2-9, Cleveland, Ohio.—Industrial Exhibition and Fair.

Syracuse, N. Y., Sept. 11-16.—New York State Fair.

Sept. 12-13, Providence, R. I.—Rhode Island Horticultural Society, Narragansett Hotel.

each making large displays. Mr. Roy was the recipient of a first class certificate for a beautiful exhibit of sweet williams. The rose show will be held on July 6 and 7.

Dr. Abel J. Grout of New Dorp, N. Y., who is an authority on North American mosses, has invited the American Fern Society to meet at his summer camp, "Moss Rock" cabin in Newfane, Vt., his native town, for several days, beginning July 17. The spot is famed as a mecca for botanists and the meeting will call together many of the scientific men of the Eastern states. Dr. Grout will extend the fishing privileges of a private pond and will transport all comers from the railroad to his camp in the heart of the southern Vermont wilderness.

A meeting of the New Jersey Flori-

cultural Society was held in Orange, N. J., June 19th. An exhibition of roses took place and some fine blooms were displayed. Wm. Reid, gardener to Sidney and A. M. Colgate, won first for vase of 18 white any variety and for best collection. Mr. Berglund, gardener for C. C. Goodrich, received the second prize in both classes. Mr. Schneider, gardener to Peter Hauck, Jr., received a special prize for collection of vegetables, also the following points in monthly competition: Cornflower, 85 points; sweet peas 60, carnations 75.

GEO. W. STRANGE, Sec'y.

The June show of the Medford (Mass) Horticultural Society was held on June 23. The rainy season had a marked effect on the exhibits, they being not up to their usual standard. Of roses there were very few exhibits and the quality was poor. Peonies were in fairly good form, being quite equal to those shown in Boston the previous week. Very good iris was staged by Mrs. Roberts, Wm. Macy and G. B. Gill. Miss Mackay had it all her own way with roses. Peonies were staged by Hon. Wilton B. Fay and Mrs. Puffer. Centaurea and larkspur by Mrs. Highly. Geo. A. Gill, sweetwilliams. The centre pieces for a luncheon table were excellent; Mrs. Highly winning with a finely arranged bowl of iris. The stage was filled with palms, ferns and peonies from the Lawrence estate. Jas. Methven of Hyde Park and Robt. Lawrie of Dedham were the judges.

GEO. F. STEWART.

CHARLES H. TOTTY
CHRYSANTHEMUMS
MADISON, N. J.

THE MACNIFF HORTICULTURAL COMPANY

52, 54 and 56 Vesey Street, NEW YORK CITY

THE LARGEST HORTICULTURAL AUCTION ROOMS IN THE WORLD

Sales Every Tuesday and Friday at 11 o'clock A. M.

AMERICAN ASSOCIATION OF NURSERYMEN.

Report of Secretary John Hall at the Annual Convention in Milwaukee, June 28-30, 1916.

Members of American Association of Nurserymen:

A pleasing duty placed upon your secretary by a resolution adopted at the Detroit convention, was to express the good wishes of the meeting to the "grand old men" of the association who were unable to be present at that gathering. This communication was written to J. Van Lindley, E. W. Kirkpatrick, C. L. Watrous (since deceased), A. N. Willis and C. S. Harrison. Several acknowledgments were received.

In anticipation of queries as to the effect of the new schedule of membership fees under the revised constitution upon the registration, your secretary feels that he cannot answer such in any different language than has already been employed by him in correspondence with the Executive Committee and in the columns of the trade publications. Predictions were made by some that Article I of the new Constitution, creating "active" and "associate" members, and introducing the plan calling for "additional dues" based on amount of business done, would work disastrously to the association. The results to date do not show such to have been the case. They have rather justified the wisdom of the adoption of the new rule, for, without any canvass for new members, the Badge book contains 364 names and eight others have registered since that publication was mailed. The cash receipts for the year have been \$5,829.85, against \$3,151.90 in 1915. For several years past effort has been made by specially-appointed committees to obtain new members, with some success, but in not a few instances this was largely intended as a compliment to the individual soliciting the membership, and therefore such have not remained permanent. Your Executive committee has passed favorably upon 21 of the 24 new applications for memberships, but after careful investigation have been compelled to decline the other three. To hold membership in this association from this time on will mean very much more to the individual nurseryman who enjoys the privilege, than the mere perfunctory act of registration. For the last six years the average registration has been 378. It ought to be twice that number.

To assist diffident members to become more easily acquainted with their brethren, it was decided to try the use of a bar containing a card upon which members are asked to write their name in a good bold hand.

The Tireless Reaper—Death—has again attacked our numbers and removed several members during the year. Captain Charles L. Watrous of Des Moines, Iowa, fell to sleep in March of the present year. Mr. Watrous was one of the "old guard" of

REX BEGONIAS

10 Good Varieties, \$10 per 100

BEDDING STOCK OF ALL KINDS

A. M. DAVENPORT - Watertown, Mass.

this organization. F. W. Power of the Oregon Nursery Co., Orenco, Oregon, died early in this summer, after a siege of ill health—the immediate cause of death being blood poisoning, which developed from an accident. W. Atlee Burpee, of Philadelphia, Pa., died November 25, 1915, aged 57. He was a former member. We also mention because of his prominent connection with the Division of Pomology in the U. S. Department of Agriculture, the removal of G. B. Brackett, in December of last year; also Major Frank Holsinger, Rosedale, Kansas, in January this year. He was not a member, but Holsinger Bros. have recently allied themselves with the Association.

There may be others of whose death we have not been advised. Members who know of such are asked to mail particulars to the Secretary, that the names may be included with others in the "In Memoriam" contained in the Annual Proceedings.

The financial statement of the year is as follows:

RECEIPTS.

June 21, 1915—Balance and New Memberships	\$ 93.50
June 20, 1916—From Membership and Badge Book ..	5,720.75
Advertisements	
Sale of Trade Term Labels	15.60
	\$5,829.85

DISBURSEMENTS.

Paid Peter Youngers	\$5,572.10
Balance on hand	257.75
	\$5,829.85

In conclusion, gentlemen, let me assert that there can be no doubt as to the future of this Association. Having broken the spell of traditional routine, which has had so tight a grip upon the organization, the new constitution beckons members to a higher plane of thought and of action, and it is no fanciful theory that we pronounce when we say that the American Association of Nurserymen is to become the synonym of all that is best in administration and in future development along lines that shall bring the orders of the consumers of your products to your desks in larger numbers. This, as a result of the more extended publicity that shall be given concerning the value of those products from both the aesthetic and the practical points of view, and because, also, of the more dignified position your honorable occupation shall come to occupy in the estimation of your patrons.

Co-operation, liberally and cheerfully given by each member to your executive officers, will make possible all that we have herein presumed to predict.

New Bedford, Mass.—Wm. E. Mosher has purchased the greenhouses of A. B. Hathaway, who is retiring from the business.

CHRYSANTHEMUMS

From 2½-in. Pots

Thanksgiving Queen, Unaka, Dolly Dimple, Elise Papworth, Intensity, Golden Dome, John Shrimpton, Lynnwood Hall, Patty, Yellow Eaton, Unaka.

\$1.00 per 100, \$30.00 per 1000.

Autumn Glory, Ada Spaulding, Cullingfordii, Dr. Enguehard, Early Snow, Golden Glow, Geo. Kalb, Glory of the Pacific, H. W. Rieman, Money Maker, Maud Dean, Monrovia, Mrs. J. Jones, Miss Alice Byron, Mrs. Baer, Major Bonnaffon, Polly Rose, Pacific Supreme, Robt. Halliday, Smith's Advance, White Bonnaffon, W. H. Lincoln and Timothy Eaton.

\$3.00 per 100, \$25.00 per 1000.

WOOD BROS., FISHKILL, N. Y.

REMEMBER!

If it's a Hardy Perennial or so called Old Fashion Flower worth growing, we have it in one shape and another the year round. We have the largest stock in this country, all made in America, and our prices

will average 75c. per doz., \$5.50 per 100.

Why say more here? Send for our Wholesale Price List of varieties and benefit from the opportunities this affords you. Address

PALISADES NURSERIES, Inc.

R. W. CLUCAS, Manager.

SPARKILL - - N. Y.

OUR EXHIBIT OF GERMAN IRIS

Won FIRST PRIZE at the

International Garden Club, Summer Show, Pelham Manor
June 1-4, 1916

JOHN LEWIS CHILDS, INC.,
FLOWERFIELD L. I., N. Y.

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.

WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.

ROOSEVELTS—\$5 per 100, \$40 per 1000.

BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

ORCHIDS

We grow and sell nothing but ORCHIDS. If you are in the market for this class of plants we respectfully solicit your inquiries and orders. Special lists on application.

LAGER & HURRELL, Summit, N. J.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

AMERICAN SEED TRADE CONVENTION.

The Thirty-fourth Annual Convention of the American Seed Trade Association closed its sessions on Thursday, the 22nd, after electing officers for the ensuing year. The attendance at this convention was by far the largest in the history of the Association and must have been very gratifying to the officers.

It is not the purpose of this article to give any detailed report of the proceedings. Such details will no doubt be given in the annual report of the secretary, although we are advised that the discussions, particularly that relating to the Disclaimer, were so prolific, that it was decided to omit most of it, not only because of the great length of the same, but because it was not thought advisable to spread on the records of the Association all that was said on each side of this subject.

The Disclaimer.

While speaking of the Disclaimer it may be well to say that it easily occupied the center of the stage, but we are informed that although the discussions were warm and earnest, they were conducted in excellent temper, and the erring brethren were not specifically censured, and all promised to support the Disclaimer in future, the old form of which was re-affirmed by an overwhelming vote. It is perhaps well to pass over this rather unpleasant incident of the past year, trusting that those who thought their interests required them to ignore the Disclaimer have been convinced that their interests are best served in its observance.

We have indicated on more than one occasion that in our judgment a modification of the phraseology of the Disclaimer might be effected which, while softening its rather frank and abrupt phraseology, would not materially impair either its moral or legal value. We are informed that this entered largely into the discussion but for fear of impairing its usefulness the Association thought best to re-affirm it in its old form. We believe, however, that now the matter has been opened for discussion the agitation for a modified form of Disclaimer will continue until this has been effected.

An Honor Bestowed.

A number of interesting and instructive papers were read on various subjects which we will not attempt to

mention in detail, but we do wish to particularly mention the report of the Association's counsel, Curtis Nye Smith, which was an especially able document and evidently greatly impressed the Association. Mr. Smith, by the way, was elected an honorary member of the Association, it being the consensus of opinion that he could serve the Association better as a member than simply as its counsel without membership.

Hospitalities.

Among the features to which attention may be called was the very able address of the president, which was the subject of consideration by a special committee, also a reception given by the President and Mrs. Lupton and their daughter. This was a very pleasant social feature of the convention. Attention may also be called to the banquet which was very handsomely arranged and although it was strictly a dry one officially, there were little oases in the desert which relieved the sombreness usually incident to cold water banquets. It may also be remarked that these oases could readily be located by the volume of noise emanating from those particular localities.

The Chicago seedsmen gave the ladies an automobile ride through the parks and North Shore Drive, Wednesday afternoon, June 21, stopping in Highland Park, where tea was served.

Crop Reports.

Very interesting crop reports were read but owing to the extreme lateness of the season both East and West, crops had not sufficiently developed to form any sort of judgment as to ultimate results. It is certain, however, that beans are going into the ground exceptionally late in Michigan and New York State, and the same may be said of sugar corn. Reports on corn and vine seeds from the West indicated a better general condition than in the East. We have learned from reliable sources that in certain sections of New York State where beans and sugar corn are grown very largely for seed purposes, only a small percentage of these crops have thus far been planted and the prospects of maturing such crops are daily growing dimmer. Only an exceptionally warm and late autumn will make this possible. The pea crop in Michigan and Wisconsin as also New York State, both for canning and seed purposes, is in very unsatisfactory condition, the odds being now that not over 50 per cent. of a yield will be secured either by the canners of the seed growers. This is a situation that must be very gratifying to those seedsmen who have carried over considerable stocks of seed peas, as well as to the canners who refused to sell their product at much below cost, taking their chances of carrying it into another year instead. Both sides are likely to reap a liberal reward for their firmness and confidence in the future.

Officers Elected.

Officers for the ensuing year were elected on Thursday, as follows: Kirby B. White, Detroit, Mich., president; F. W. Bolgiano, Washington, D. C., first vice-president; L. L. Olds, Madison, Wis., second vice-president; C. E. Kendel, Cleveland, O., secretary and treasurer.

Executive Committee—J. M. Lupton, Mattituck, N. Y.; J. L. Hunt, Cambridge, N. Y.; H. M. Earl, Philadelphia, Pa.; L. H. Vaughan, Chicago; W. G. Scarlett, Baltimore, Md.

Membership Committee—J. C. Robinson, Waterloo, Neb.; Ben P. Corneli, St. Louis, Mo.; H. G. Hastings, Atlanta, Ga.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending June 16th, were recorded as follows:

Bulbs—Netherlands, \$36; Bermuda, \$1.

Plants—Belgium, \$7,117; Italy, \$9; England, \$709; Bermuda, \$49; Costa Rica, \$34; Brazil, \$184; Trinidad, \$4; Colombia, \$2,592.

Red clover seed—France, \$11,546.
Clover seed—France, \$14,636; New Zealand, \$4,022.

Grass seed—Scotland, \$105.
Other seeds—France, \$28; Italy, \$48; Malta, \$1,129; Netherlands, \$318; England, \$24,194; Mexico, \$59; Argentine, \$976; Hongkong, \$257; Japan, \$35; Dutch Guiana, \$10.

Carbonate of potash—Mexico, \$1,829; Peru, \$50.

Nitrate of soda—Chile, \$60.

Other fertilizers—England, \$64,278.

Notes.

W. C. Grote, of Council Bluffs, Ia., has been elected president of the Iowa Seed Dealers' Association, at the ninth annual meeting held in Des Moines, June 8th. Other officers are E. M. Cole, Pella, vice-president, A. M. Eldridge, secretary, and John T. Hamilton, treasurer.

Last week a New York consignee was obliged to plant in Neptune's pond 150 cases of unsalable nursery stock. No doubt the finney tribe will appreciate swimming amongst the foliage, but it is hard on the Dutch consignors. This might be an object lesson to them in the future that this country is no dumping ground for the whole of Holland.

The Wholesale Grass Seed Dealers' Association elected the following officers for the ensuing year at the annual meeting held in Chicago, June 19th: President, A. E. Reynolds, Crawfordville, Ind.; vice-president, C. C. Massie, Indianapolis, Ind.; secretary-treasurer, Wm. R. Jossman; committee on arbitration, John A. Smith, Geo. S. Green and E. T. Stanford; counsel, Curtis Nye Smith, Boston.

Worcester, Mass.—The annual inspection trip in the Worcester parks took place on Thursday, June 29. A goodly number of park officials from other cities were present on invitation of the Board of Park Commissioners and H. J. Neale, city forester. Arthur V. Parker is superintendent of the parks of Worcester.

"Seeds with a Lineage" All Varieties

Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

MICHELL'S GIANT PRIZE PANSY SEED

NEW CROP

GIANT EXHIBITION MIXED. A Giant Strain which for size of bloom, heavy texture and varied colors and shades cannot be surpassed. Half trade pkt., 20c; 50c. per tr. pkt.; per 1/2 oz., 75c.; \$5.00 per oz.

	Tr. Pkt.	Oz.
Giant Prize Azure Blue.....	.40	\$1.75
Giant Prize Black Blue.....	.40	1.75
Giant Prize Emperor William, Blue.....	.40	1.75
Giant Prize Hortensia Red.....	.40	2.00
Giant Prize King of the Blacks.....	.40	1.75
Giant Prize Lord Beaconsfield, Purple Violet.....	.40	1.75
Giant Prize Peacock, Blue, Claret and White.....	.40	2.50
Giant Prize Snow Queen, Pure White.....	.40	1.75
Giant Prize Striped and Mottled.....	.40	1.75
Giant Prize White with Eye.....	.40	1.75
Giant Prize Pure Yellow.....	.40	1.75
Giant Prize Yellow with Eye.....	.40	1.75

Also all other seasonable seeds and supplies. Send for Wholesale Catalogue and Price List.

HENRY F. MICHELL CO.

Flower Seed Specialists

518 Market St., Philadelphia, Pa.

My new Price List of

WINTER-ORCHID-FLOWERING SWEET PEA SEED

Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

KEYSTONE SNAPDRAGON

Best Winter flowering Pink Snapdragon on the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.

PHILADELPHIA, PA.

LILIUM GIGANTEUM COLD STORAGE

Extra Selected Stock. Gladiolus for forcing. Nannus, Colvilled or large flowering type. Greenhouse Fertilizers. Ask for 1916 Seed Catalogue.

Joseph Breck & Sons Corp., Seedsmen
47-49 No. Market St., BOSTON, MASS.

Burpee's Seeds PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT

CANNAS, 3 Inch Pots

In the very best varieties—
\$3.00 per 100—\$25.00
per 1000

ROMAN J. IRWIN

108 W. 28th St., New York.

SPECIAL OFFER TO THE TRADE ONLY OF GERMAN IRISES

in the following choice named varieties:

ASIATICUS. S. violet-blue; F. deep purple-blue.

BOCCAGE. S. soft lavender; F. maroon and veined maroon on a white ground.

BRONZE BEAUTY. S. sulphury-bronze; F. claret shading to light lavender, orange beard.

COMTE DE ST. CLAIR. S. pale blue; F. deep violet, striped and margined white.

EDITH. S. porcelain-blue; F. veined dark blue on a white ground;

ELIZABETH. S. pale blue, passing to grey; F. soft lilac-blue.

FLORENTINA PURPUREA. S. violet; F. purple.

FLORENTINA ALBA. (Queen Emma.) S. and F. soft shade of grey.

GARRICK. S. pale lavender; F. deep lavender.

GRACCHUS. S. pure yellow; F. crimson reticulated white.

HONORABLE. S. golden yellow; F. rich mahogany-brown.

INNOCENZA. S. ivory-white; F. white, striped maroon at base; beard golden.

JOHAN DE WITTE. (Spectabilis.) S. light lilac-blue; F. purple.

KING EDWARD VII. (Plumeri.) S. soft rosy-lilac; F. crimson.

MADAME CHEREAU. S. and F. white, frilled azure blue.

MISS MAGGIE. (Hermoine.) S. silvery-lavender; F. suffused soft rose.

MORPHEUS. S. French grey; F. reticulated royal purple on a white ground.

MRS. H. DARWIN. S. pure white; F. white, reticulated violet at base.

PANCHREA. S. bronze; F. white, striped crimson.

PRESIDENT CARNOT. S. light blue; F. deep violet.

SAMBUCINA BEETHOVEN. S. rosy-lilac; F. purple with orange crest.

SPARTA. S. bronze-yellow; F. maroon margined old gold.

VAN GEERTIL. S. bronze shaded lavender; F. very dark purple, veined white.

In the descriptions (S) is used to signify standards; (F) falls.

Prices of all the above varieties \$6.00 per 100; \$50.00 per 1000. September Delivery. **PALLIDA DALMATICA**—the finest pale blue Iris of the Germanica group. Price, \$12.00 per 100; \$100.00 per 1000. September delivery.

R. & J. FARQUHAR & CO., Boston, Mass.

SEEDS--ONION SETS

Appreciation of a high order of Merit in Seeds and Seed Service leads naturally to purchasing from

LEONARD SEED COMPANY

226-230 W. KINZIE ST., - - - CHICAGO

WILL EXCHANGE

REX BEGONIAS

strong plants from 2 1/4 in. pots, for

BOSTON FERNS

from 2 1/4 in. pots

JAMES VICK'S SONS, Rochester, N. Y.

MIGNONETTE

IMPROVED ECLIPSE.

Superior to all others for winter blooming, exhibition, or cutting. Immense fragrant spikes 10 to 15 inches long. Greenhouse grown seed from a re-selected strain. Pkt. 25c., 1/16 oz. \$1.00. Catalogue upon application.

THOMAS J. GREY & CO., Seedsmen

29 So. Market St., Boston, Mass.

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

W. E. MARSHALL & CO.

SEEDS, PLANTS AND BULBS

Horticultural Sundries

166 W. 23rd St., NEW YORK

Thorburn's

GLADIOLUS

Various Choice Mixed

Varieties

See our Florists' Catalogue and ask for special prices.

J. M. THORBURN & CO.,
53 Barclay St., New York

FORGING GLADIOLUS

All First Size Bulbs

	100	1000
America, pink	\$1.25	\$7.00
Augusta, white	1.85	7.00
Brenchleyensis, red	1.25	6.00
Francis King, scarlet.....	1.25	6.00

A. HENDERSON & CO.

711 '000V10HO 75 01018 A 100

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

ALEX. McCONNELL611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

For KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for New York. Write or Phone to

MAX SCHLING

22 West 59th Street, - Adjoining Plaza Hotel

Best Florists in the States as References.

EUROPEAN ORDERS EXECUTED.

Members of the Florists' Telegraph Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO**DAVID CLARKE'S SONS**

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York

Telephone 1553-1553 Columbus

YOUNG & NUGENT42 West 28 Street
New York

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

WORCESTER, MASS.

Randall's Flower Shop

HARRY L. RANDALL, Proprietor.

Member Florists Telegraph Delivery Association

Of Interest to Retail Florists**NEW FLOWER STORES.**

Emporia, Kan.—George A. Speer.

Ann Arbor, Mich.—Goodhew Floral Co., Darling Bldg.

Nashville, Tenn.—Theodore Smith, Goveman, Joseph & Lieb department store.

NEW CORPORATIONS.

Chicago, Ill.—Western Flower Co., incorporators, S. N. Cohen, B. J. Brown and I. Samelow.

Norfolk, Va.—Norfolk Hotbed Growers' Association, incorporators, G. E. and F. W. Richardson.

Detroit, Mich.—John Breitmeyer's Sons, florists, capital stock, \$50,000. Incorporators, Philip and H. G. Breitmeyer and Frank Danzer.

Hartford, Ct.—McManus Posey Shop, retail florists, capital stock, \$2,000. Incorporators, Florence G. Hagarty, Mary A. and William J. McManus.

New York, N. Y.—Hentz & Nash, Inc., florists and horticulturists, capital stock, \$25,000. Incorporators, A. S. Nash, L. A. Nash and H. Hentz, Jr.

Sante Fe, N. M.—Four States Seed Co., capital stock, \$5,000. Incorporators, A. Hartner, Denver, Col., A. Hegleman, Denver, and W. L. Franklin, Clayton.

BUSINESS TROUBLES.

Worcester, Mass.—John U. Gibbons, florist, assets, \$271, liabilities, \$662.

Philadelphia, Pa.—The Poryzees Flower Co., liabilities, \$2,000, no assets.

NEWS NOTES.

Skaneateles, N. Y.—Archie Patrick has purchased the florist and greenhouse business of J. G. White.

New London, Ct.—George E. Fisher, the State street florist, has opened a branch flower shop at the Hotel Griswold. The shop will be in charge of Robert Montgomery of Boston.

WHY

Jinn The Florist?
4 Park St., Boston, Mass.

Because Satisfaction
Is Guaranteed

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery Association.



GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE National Capital

At your service to deliver Flowers or Designs on Order by Telegraph or otherwise. Prompt Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

J. B. KELLER SONS, FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2786
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD NEW YORK

413 Madison Avenue at 48th Street.

WE GUARANTEE SATISFACTION
MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1836 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

SALTER BROS.
FLORISTS
38 Main Street, West
ROCHESTER, - N. Y.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State St.
Albany, N. Y.—The Rosery, 23 Steuben St.
Albany, N. Y.—William C. Gloeckner, 97 State St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Boston—Zinn the Florist, 4 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th St.
Cleveland, O.—The Smith & Feters Co., 735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.
New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schilling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
New York—A. T. Bunyard, 413 Madison Ave., at 48th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
Rochester, N. Y.—Salter Bros., 38 Main St., West.
San Francisco—Pelicano, Rossi & Co., 123 Kearny St.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—H. F. A. Lange.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

Penn The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 Tremont St., BOSTON

REUTER'S Members Florists' Telegraph Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only
THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

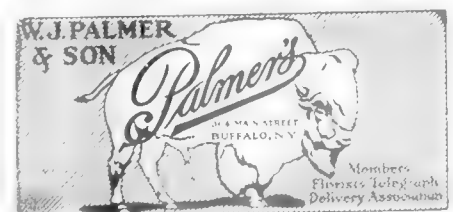
Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
106 STATE STREET, ALBANY, N. Y.



J. H. SMALL & SONS

FLORISTS NEW YORK and WASHINGTON

Announce the removal of their New York store to

505 MADISON AVENUE, AT 52d STREET

WASHINGTON, D. C.
15th and H Streets

Floral and Landscape Work

NEW YORK—Waldorf-Astoria
and 505 Madison Ave.

NEWS ITEMS FROM EVERYWHERE

BOSTON.

The flower markets have agreed to close at noon on Saturdays during the months of July and August.

Richard R. Haley, a well known florist of Everett, and Miss Anna T. Tehan were married on June 23.

Miss Genevieve Frances, daughter of Mr. and Mrs. F. Schuyler Mathews, was married to Francis Alley Hubbard at Cambridge, Mass., on June 26.

Dudley M. Pray of the Eastern Chemical Co., Jamaica Plain, tells us that the company suffered considerable damage by fire and water on Saturday, June 10, the roof being entirely burnt off the company's building. That the company is a live wire, however, is shown by the fact that they are still doing business at the old stand.

Covering one end of the smaller exhibition room of Horticultural Hall, the painting recently designed and painted by pupils of the Boston Museum of Fine Arts, is now in place. The design of the decoration is a formal garden crowned by the seal of Massachusetts Horticultural Society and surrounded by festoons of flowers. It is 28 by 14 feet and is directly opposite the entrance to the small hall.

The annual picnic of the Gardeners' and Florists' Club has been arranged for Thursday, July 27th, and the Committee on Sports is asking for contributions for prizes. During past years the appeal of the committee has been most liberally responded to, and there seems little doubt that the small amount now needed will be quickly subscribed. The committee requests that the contributions be for small sums. It is the purpose of the committee to make this a banner year and

keep up the record for a good day's fun to be enjoyed by all the members and families.

CHICAGO.

A. Henderson considers the season just closed as a fair one for the seed business. They have already received a shipment of Purity freesias.

It is the plan of Paul Klingsporn to have all the employees of the Chicago Flower Growers' Association take vacations in turn, Michael Fink leading off next Saturday.

Mrs. Phil Schupp and daughter left this week for their cottage at William's Bay, Wis., where they will spend the summer. Mrs. T. A. Budlong has been there for some time.

The bedding season is about over. The cold spring made it late in opening, but for the same reason it has been unusually long. The parks are beautiful, the soft green of the foliage retaining the freshness of early spring.

P. J. Foley modestly asserts that his fish story may not be given the credence it deserves but stoutly affirms that it is true. While enjoying some fishing in the lakes of northern Minnesota he lassoed a black bear—swimming in the water, but bruin was so eager to share the seat in the boat that they were obliged to set him free. Since his return they have shipped material for two large greenhouses to Cleveland, Ohio.

WASHINGTON, D. C.

The Senate has called upon the Federal Trade Commission to make an investigation to ascertain the cause of the increase in the price of anthracite coal.

William M. Hetherington, Philadelphia, is spending a month with his brother, J. Harper Hetherington, manager of the Washington Floral Company's store.

Hanover, Mass.—Miss Lottie Peterson, who has been at the Hanover Greenhouse for some time, has taken a position in the store of the firm in Rockland.

NEW YORK.

The Greek-American Florists' Association will hold its annual picnic at Witzel's Point Grove on Thursday, July 6.

Walter R. Siebrecht, who has been on the sick list for several weeks is better and has gone to Lake George to recuperate.

The N. Y. and N. J. Plant Growers' Association started with a full delegation for their 3 days' outing on Tuesday, June 27.

Wm. Nilsson, Woodlawn, is confined to his bed with a very bad case of inflammatory rheumatism which has been coming on for a considerable time. Mr. Nilsson's property on which are his greenhouses and nursery has been condemned for the extension of Bronx Park and he will soon be obliged to vacate.

Quite a number of young men connected with the floral trade of New York have joined their regiments and departed for the Mexican border. Among them are John Knickman from Bobbink & Atkins, Julius Mason from the Kervan Co., who is in Co. G, 71st Reg., Wm. McGann, 14th Reg. from J. J. Coan's, Arthur Clarke, corporal in 7th, of David Clarke's Sons, Jos. Leikens, retail florist, captain in 7th Reg., Stephen Masur's chauffeur, Charles H. Brown's son, an employee of Woodrow & Marketos, Robert M. Burnett, 4th N. J. Reg., second son of George Burnett, seedsman, David Thom, also an employee of Burnett Bros.

Springfield, Mass.—A thief attempted to make off with the contents of the money drawer at Mark Aitken's store last Thursday afternoon, but he was overcome after a hard battle and taken to the police station. His name is Wm. Clancy.

HIGH GRADE PLANTS

For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.

FLOWERS BY TELEGRAPH
SAN FRANCISCO
CALIFORNIA
Pelicano, Rossi & Co.
123 KEARNY ST.

PROFITS PROFITS PROFITS

There's Money in Summer Business for the Florist Who Knows How to Please

We can supply you with strictly up-to-date accessories, which you **must** have if you want to give satisfaction. Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

1129 Arch Street, PHILADELPHIA, PA.

PITTSBURGH.

Accompanied by his family, O. J. Parker has gone to Prout's Neck, Maine, for the summer.

The sunken gardens are now under construction for the new summer home of Charles M. Schwab at Loretto.

The branch shop of the Zieger Company on North Highland avenue will be merged with the main house on Baum street the first of July.

Edward E. Ludwig has returned home from Cornell, where he was a member of this year's graduating class in the horticultural department.

Frank Smoller, an employee of Walter A. Faulk left on Saturday night for Mount Gretna, accompanying the National Guard en route for the Mexican frontier.

David Fraser, the superintendent of Henry Clay Frick's Pittsburgh estate, and of Fifth avenue, has placed John Martin on the New York grounds as resident gardener.

On last Wednesday a large outing was held on the Castle Shannon farm of Henry Meuschke, treasurer of the Ludwig Floral Company, for the German-Austrian-Hungarian benefit fund.

The funeral services of Miss Nora Noonan were held on last Monday morning in St. Mary's church, Bloomfield. Miss Noonan was for sixteen years head bookkeeper for the A. W. Smith Co.

Mrs. M. O. Roberts has been appointed chairman of the flower committee under the Bureau of Recreation for the summer. Flower Days in Pittsburgh's playgrounds this summer will be on Fridays during July and August.

Of surpassing beauty were the decorations for the garden party given for a debutante of the past season at the Allegheny Country Club on Sewickley Heights, where the decorations were carried out with Dorothy Perkins ramblers, etc., and fully a hundred Japanese lanterns.

The second annual rose day of the Congress of Women's Clubs of Western Pennsylvania was observed this

month with Mrs. A. D. Price as general chairman for the distribution. Roses by the thousands, as well as other flowers, were taken by the members to the hospitals of the city and distributed to the public ward patients.

Director Robert Swan, of the Department of Public Works, and Superintendent George W. Burke, of the Bureau of Parks, have started a campaign to beautify the city's streets through the construction of flower boxes in windows. They hope that the movement will be joined in by all citizens, particularly in the down-town sections. The Department of Public Works will gladly furnish suggestions as to what plants and flowers should be used.

PHILADELPHIA.

Still they come. Another florist for Ranstead street. Eugene Bernheimer is the latest. He moves from 11 South 16th to 1531 Ranstead July 1st. The great Kelly street with its bronze tablet is not "the only pebble on the beach."

John Walker, of Youngstown, Ohio, and the Isle of Pines, arrived in town last week, and his merry laugh was heard all over town from League Island to Frankford. So of course the sun was shining—and Jupiter Pluvius chased himself out of sight.

Allen Culberson, leader of the auto forces of the Pennock-Meehan Co., left on the 22nd inst. for Mount Gretna where the National Guard of Pennsylvania assemble on their way to defend their country's honor in the threatened trouble with Mexico.

James J. Karins, of the Dreer forces, who went under an operation for appendicitis at the German Hospital on the 22nd, was reported on the 28th to be progressing favorably. The operation was performed by the famous Dr. Deaver, who has achieved wide distinction on surgical cases of this kind.

Abram L. Pennock had a pleasant surprise this week. The old veteran had a call from three other old veterans. Adam Graham of Cleveland,

John Westcott and Robert Craig of Philadelphia, at his old homestead at Lansdowne, Delaware Co., Pa. His son, Samuel S. Pennock, drove the party out in his auto and did the honors of the occasion.

ST. LOUIS.

The St. Louis Florist Club's picnic will take place July 20th at Romona Park. This is a much looked for day among the florists each year.

The St. Louis Retail Florists' Association held a pleasant meeting June 19th at the Mission Inn Garden and talked over the season's business.

Walter Young of C. Young & Sons Co., left for the front with Battery A last week. Martin Lechner of Lechner Bros. also joined forces with the boys ready to fight the Mexicans at a moment's notice.

A new wholesale house was incorporated last week to be known as The St. Louis Wholesale Cut Flower Co. with a capital stock of \$20,000 all paid up. The incorporators are David S. Geddis, J. J. Beneke and F. P. Maid. Messrs. Geddis and Beneke are well-known in trade circles. The new company will open for business September first.

Obituary

William Bell.

Wm. Bell, a florist for many years in Spuyten Duyvil, N. Y., died on June 23 at his home on University Ave., Bronx, New York, aged 89 years.

George Shoemaker

George Shoemaker, orchid grower for S. C. Briggs, passed away at the George Washington University after having been confined to that institution for less than a week. Death was caused by stomach trouble which necessitated an operation from which he failed to recover. He was twenty-nine years of age and had been in the employ of Mr. Briggs for ten years. His widow and two children survive him.

Now Is The Time To Put
In Next Season's Supply of
SPHAGNUM MOSS

Six 5 Bbl. Bales for \$10.00

This is the biggest value in Moss you can buy. Our Moss is clean and fresh and each bale is wrapped.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S
Wholesale & Commission Florists
FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

EDWARD REID
WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER
122 West 25th St., New York
Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85, 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists
RICHMOND, IND.

Please mention Horticulture when writing.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**

WHOLESALE COMMISSION FLORISTS
Consignments Solicited

Hardy Fancy Fern Our Specialty
264 RANDOLPH ST., DETROIT, MICH.

Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE

Plantsmen and Florists
37 and 39 West 28th St., NEW YORK



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

226 DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON June 29		ST. LOUIS June 26		PHILA. June 26	
Roses						
Am. Beauty, Special	15.00	to 25.00	15.00	to 25.00	20.00	to 25.00
" Fancy and Extra	10.00	to 15.00	8.00	to 10.00	10.00	to 15.00
" No. 1	1.00	to 6.00	1.00	to 5.00	2.00	to 8.00
Russell, Hadley	2.00	to 12.00	5.00	to 10.00	3.00	to 20.00
Killarney, Richmond, Hillingdon, Ward, Extra	4.00	to 6.00	5.00	to 8.00	5.00	to 8.00
" Ordinary	1.00	to 4.00	3.00	to 4.00	1.00	to 4.00
Arenburg, Radiance, Taft, Key, Extra	1.00	to 8.00	.....	to 5.00	1.00	to 8.00
" Ordinary	1.00	to 4.00	.....	to 1.00	1.00	to 4.00
Ophelia, Mock, Sunburst, Extra	6.00	to 8.00	5.00	to 8.00	5.00	to 10.00
" Ordinary	1.00	to 4.00	2.00	to 3.00	2.00	to 4.00
Carnations, Fancy	1.00	to 1.50	2.00	to 3.00	2.00	to 3.00
" Ordinary	.35	to .75	.75	to 1.00	1.00	to 1.50
Cattleyas	20.00	to 25.00	30.00	to 40.00	35.00	to 50.00
Dendrobium formosum	.....	to 35.00	.....	to 40.00	.....	to 50.00
Lilies	4.00	to 6.00	10.00	to 12.50	8.00	to 10.00
Lily of the Valley	4.00	to 6.00	4.00	to 5.00	2.00	to 6.00
Daisies	1.00	to 2.00	.25	to .35	.50	to 1.00
Mignonette	1.00	to 2.00	.....	to 4.00	1.00	to 2.00
Snape dragon	2.00	to 6.00	3.00	to 4.00	1.00	to 2.00
Peonies	1.00	to 4.00	.....	to 1.00	1.00	to 3.00
Gladioli	2.00	to 4.00	3.00	to 4.00	5.00	to 6.00
Calendulas	1.00	to 2.00	2.00	to 3.00	.....	to 4.00
Stocks	1.00	to 2.00	2.00	to 3.00	.....	to 4.00
Sweet Peas	.50	to 1.00	.15	to .25	.25	to .75
Gardenias	20.00	to 25.00	.....	to 1.25	.....	to 1.00
Adiantum	12.00	to 15.00	12.00	to 15.00	20.00	to 25.00
Smilax	12.00	to 15.00	12.00	to 15.00	20.00	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	25.00	to 35.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co.
Wholesale Florists

383-387 ELLICOTT ST. - - - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

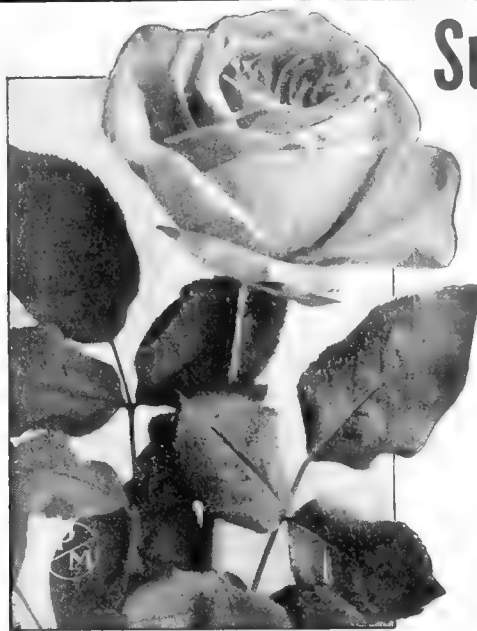
In writing to Advertisers kindly mention Horticulture

Flower Market Reports

BOSTON This market is just now making a quick change overturn from bustling activity to summer listlessness. All the events that go to make June a good time for the florist are finished for this year; graduates have gathered in their diplomas and departed to get a rest-up before beginning life under new conditions; brides have disappeared to secluded retreats with their captures and nobody cares for the time being whether the florist prospers or not—or even exists, except where the unwelcome visitor with the sythe breaks in and then there comes a ripple on the becalmed surface. If a call should come for such use, there are plenty of serviceable flowers but should the demand include lily of the valley then the price must be paid—about double that of recent years. Lilies are plentiful but white roses are not. Carnations are very much overstocked, with quality ranging all the way from exceptionally fine blooms down to the worst imaginable rubbish, and values run lower than ever before at anytime of the year. American Beauty and Ophelia roses are among the best sellers and we might also include Hadley. There are still some peonies but no place for them now that the jollifications are all over. It is a good time for the florist to take a vacation.

CHICAGO No one complains yet of the extreme falling off of business that is always a part of the "good old summer time." True, the amount of money taken in is not equal to that of the winter time, but no one expects it and for the last week in June conditions are very satisfactory. Peonies are all cut, which is something to be thankful for and the cold storage plants do not contain so many as in previous years, which is regretted by no one. The counters are holding a great many wide open blooms and many growers are going to find their profits decreased by this condition which has prevailed all through the peony season. Carnation sales do not use all the good stock now coming in and there are many of the poorer grades to add to them. The latter part of the week moves off more flowers than all the rest in local sales and shipping orders are fairly numerous this week. Sweet peas are now plentiful but a very large proportion are of low grade. There are plenty of roses of all kinds. Larkspurs are especially prominent this week in the list of out-door flowers.

The receipts of stock are more than sufficient and prices are low. Shipping business holds up pretty well. Roses are in a heavy supply. Carnation receipts are letting down rapidly from day to day. Gladioli find a ready sale. The cut of lilies is adequate. Orchids and lily of the valley are having a heavy call but this will be over after this week. Other offerings include water lilies, larkspur, rambler roses and coreopsis.



Summer Roses

Both Russell and Jonkheer Mock are holding up well. They are two of our best hot weather roses.

\$5.00 to \$10.00 per 100, with some extra long Russell at \$12 and \$15 per 100.

CLOSED ALL DAY JULY 4TH.

**During July and August: Clos-
ing Time 5 P. M.**

S. S. PENNOCK-MEEHAN CO.

The Wholesale Florists of Philadelphia

PHILADELPHIA

1608-1620 Ludlow St.

NEW YORK

117 W. 28th St.

BALTIMORE

Franklin & St. Paul St

WASHINGTON

**WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100
TO DEALERS ONLY**

	CINCINNATI		CHICAGO		BUFFALO		PITTSBURG	
Roses	June 21		June 20		June 26		June 19	
Am. Beauty, Special.....	20.00	to 30.00	20.00	to 25.00	20.00	to 25.00	15.00	to 20.00
“ “ Fancy and Extra.....	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00	10.00	to 12.00
“ “ No. 1.....	8.00	to 15.00	10.00	to 15.00	10.00	to 15.00	6.00	to 8.00
Russell, Hadley.....	8.00	to 15.00	3.00	to 20.00	.....	to	4.00	to 12.00
Killarney, Richm'd, Hill'don, Ward	6.00	to 8.00	6.00	to 8.00	6.00	to 8.00	6.00	to 10.00
“ “ Ord.	3.00	to 5.00	2.00	to 4.00	3.00	to 6.00	3.00	to 4.00
Arenburg, Radiance, Taft, Key, Ex.	6.00	to 8.00	.....	to	5.00	to 6.00	.....	to
“ “ Ord.	3.00	to 5.00	.....	to	3.00	to 4.00	.....	to
Ophelia, Mock, Sunburst, Extra	6.00	to 8.00	6.00	to 10.00	.....	to 8.00	6.00	to 10.00
“ “ Ordinary	3.00	to 5.00	2.00	to 5.00	4.00	to 6.00	3.00	to 4.00
Carnations, Fancy.....	2.00	to 3.00	.....	to 2.00	2.00	to 2.50	.....	to 3.00
“ “ Ordinary.....	.....	to 1.50	1.00	to 1.50	1.00	to 2.00	1.50	to 2.00
Cattleyas.....	50.00	to 60.00	50.00	to 75.00	40.00	to 50.00	40.00	to 75.00
Dendrobium formosum.....	.....	to .....	.....	to .....	.....	to .....	.....	to
Lilies.....	10.00	to 12.00	6.00	to 10.00	6.00	to 10.00	8.00	to 10.00
Lily of the Valley.....	.....	to 6.00	3.00	to 6.00	4.00	to 6.00	4.00	to 5.00
Daisies.....	.....	to .....	.25	to 1.50	1.50	to 1.00	.....	to 1.00
Mignonette.....	3.00	to 5.00	2.00	to 5.00	3.00	to 2.00	.....	to
Snapdragon.....	4.00	to 6.00	3.00	to 6.00	3.00	to 6.00	.....	to
Peonies.....	.....	to	3.00	to 6.00	3.00	to 4.00	2.00	to 6.00
Gladioli.....	4.00	to 6.00	3.00	to 6.00	3.00	to 6.00	6.00	to 8.00
Calendulas.....	2.00	to 3.00	.....	to	1.00	to 3.00	.....	to
Stocks.....	2.00	to 3.00	.....	to	1.50	to 3.00	.50	to 3.00
Sweet Peas.....	.35	to .50	.50	to 1.00	.50	to 1.00	.30	to .50
Gardenias.....	.....	to .....	.....	to	10.00	to 15.00	.....	to
Adiantum.....	.....	to 1.00	1.00	to 1.25	1.00	to 1.25	.75	to 1.25
Smilax.....	15.00	to 20.00	12.00	to 20.00	15.00	to 20.00	14.50	to 15.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 35.00	25.00	to 50.00	20.00	to 30.00	30.00	to 50.00

This market is well
NEW YORK supplied with pre-
miscuous flower stock.
The windows all through the whole-
sale district are aglow with campanu-
las, coreopsis, sweet williams, sweet
peas, gaillardias, centaureas, daises,
larkspurs, peonies and other glowing
products of the outdoor plantation. Of
roses not many are in sight but
there are plenty laid away in the
ice boxes and they may be had
at low figures unless they are white.
The seeker after white roses will find
things badly stacked against him, es-
pecially if he is looking for medium
quality. There are more of the high-
grade type in proportion than of the
lesser but there are only few places
where the high-grade will fit at this
time. Lily of the valley is scarce and
will so continue for obvious reasons.
Carnations run very poor as a rule and
there is little call for them. A good
many rambler rose sprays are seen and

they are worthy of a better market than is possible at this date. If they only could have come in two or three weeks earlier then there would have been "something doing."

PHILADELPHIA Conditions here continue fairly satisfactory. The supply of flowers has shortened up and is about equal to the demand which is as brisk as could be expected at this season of the year. In the rose market the American Beauty situation is greatly improved by the influx of some nice stock from "Down East" which helps out our shortened local supplies very nicely. Russell and Hadley are holding their own very well. Plenty of other good roses all down the list. The carnation situation is without special feature. Good demand for such lots as show extra quality but the great bulk arriving are naturally showing the effect of advancing season. Cattleyas are more

Continued on page 200

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

MOORE, HENTZ & NASH

Wholesale Commission Florists

55 and 57 West 26th Street

Telephone No. 756
Madison Square

New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE { 608 } MADISON SQ., NEW YORK
{ 609 }

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.
Tel. { 1593 } Mad. Sq. 119 W. 28 St., New York
{ 5893 }

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.

Wholesale Commission

READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST

SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE { 2281 } FARRAGUT 131 West 28th St., NEW YORK CITY
{ 3089 }

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.
WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS
GARDENIAS, DAISIES, ROSES, CARNATIONS ON HAND

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 7062 Madison

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones { 1684 } Madison Square
{ 1685 }

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending June 24 1916		First Half of Week beginning June 26 1916	
American Beauty, Special	15.00	to 20.00	15.00	to 20.00
" " Fancy and Extra	10.00	to 12.00	10.00	to 12.00
" " No. 1	2.00	to 6.00	2.00	to 6.00
Russell, Hadley	2.00	to 3.00	2.00	to 3.00
Killarney, Richmond, Hillingdon, Ward, Extra	3.00	to 4.00	3.00	to 4.00
Ordinary	.50	to 2.00	.50	to 2.00
Arenburg, Radiance, Taft, Key, Extra	4.00	to 5.00	4.00	to 5.00
Ordinary	.50	to 2.00	.50	to 2.00
Ophelia, Mock, Sunburst, Extra	4.00	to 8.00	4.00	to 8.00
Ordinary	1.00	to 3.00	1.00	to 3.00
Carnations, Fancy	1.50	to 2.00	1.50	to 2.00
Ordinary	.75	to 1.00	.75	to 1.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for do-
ing our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK
Phones 2036, 2037, 558 Farragut

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797-798-799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality.

114 West 28th Street
NEW YORK

**HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS**

55-57 West 26th Street

Telephones, 13—8510 Madison Square

MAURICE L. GLASS, Treasurer

Consignments Solicited

Flower Market Reports

(Continued from page 21)

plentiful and while the demand is still good prices have eased up a little. Quite a lot of southern gardenias have been received lately and they are taken up only in moderate quantity so that a good deal of these go to waste. Peonies still available in quantity and of very good quality. Very few reds to be seen—mostly pinks and whites. The sweet peas now arriving are mostly out-door stock and they are coming in soft on account of the copious rainfall which hurts their shipping and keeping qualities. Large supply and big variety in out-door flowers which move off fairly well and please the buyers who want big measure for little money.

Were it not for the almost unprecedented scarcity of flowers, business would be particularly good at present. There has been an unusual amount of funeral work, which together with a continuous round of conventions, and a few stray weddings has kept the demand almost up to the mark of early June. However, this demand has been utterly impossible to satisfactorily supply roses of all grades and lilies of the valley in particular, being almost impossible to secure in quantities. Neither is the outlook bright for some time to come.

The wholesale market was in a most deplorable condition last week. There was plenty of stock but the demand was slow causing a great surplus to pile up. The stock that is coming in is keeping up good in quality. A fine cut of gladioli comes in daily. Carnations and sweet peas are too many, the latter selling as low as 75 cents to \$1 per 1000. Lilies sell well and lily of the valley is up to \$5 per 100.

The weather thus far this month has not been conducive to the best of production. Recent storms have flooded out lily ponds and heavy falls of rain have beaten down the outdoor stock. The cold and wet are also having a very bad effect upon the asters, producing nothing but foliage and stems, with leaf and stem-rot threatening. Peonies are off the market and this has strengthened the demand for lilies, carnations and even gardenias for funeral work. American Beauty roses have been scarce and have cleaned up well. Local roses are getting small and poor with those from the north following them closely to that condition. There are but few good carnations. Large quantities of coreopsis have been coming in.

VISITORS' REGISTER.

St. Louis—Guy Reyburn of A. Henderson Co., Chicago.

New York—J. K. M. L. Farquhar, Boston; Wm. J. Stewart, Boston; J. C. Vaughan, Chicago.

Cincinnati—Wm. Lodder, Hamilton,

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending June 24 1916	First Half of Week beginning June 26 1916
Cattleyas.....	15.00 to 25.00	15.00 to 25.00
Dendrobium formosum.....	20.00 to 25.00	20.00 to 25.00
Lilies.....	2.00 to 5.00	2.00 to 5.00
Lily of the Valley.....	3.00 to 6.00	3.00 to 6.00
Daisies.....	.50 to 1.00	.50 to 1.00
Mignonette.....	1.00 to 2.00	1.00 to 2.00
Snappers.....	2.00 to 4.00	2.00 to 4.00
Peonies.....	.50 to 2.00	.50 to 2.00
Gladioli.....	1.00 to 4.00	1.00 to 4.00
Calendulas.....	1.00 to 2.00	1.00 to 2.00
Stocks.....	1.00 to 2.00	1.00 to 2.00
Sweet Peas.....	.15 to .75	.15 to .75
Gardenias.....	4.00 to 12.00	4.00 to 12.00
Adiantum.....	.50 to 1.00	.50 to 1.00
Smilax.....	10.00 to 12.00	10.00 to 12.00
Asparagus Plumosus, & Spreng (100 bunches).....	15.00 to 25.00	15.00 to 25.00

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street
167 & 3058 Farragut NEW YORK

Established 1888 Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists
110 West 28th St., New York
We Solicit Consignments of New
England Grown Novelties.

J. J. COAN, INC.

115 WEST 25TH STREET
New York
Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST
Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square
BOSTON, MASS.
Telephone 2618-2617-2616, Main.

O.; J. T. Heideger, Aurora, Ind.; Warren Huckleberry, North Vernon, Ind.

Chicago—C. Fruyling of Wealthy Street Floral Co., Grand Rapids, Mich., accompanied by C. Jonge, an employee.

Washington, D. C.—Herbert A. Pennock, Jupiter, Fla.; Arthur Niessen, Phila., Pa.; Jno. Stuppy, St. Joseph, Mo.; William L. Wildley, Barrytown, N. Y.; Jos. E. Rolker, New York; Mr. and Mrs. Harry Lewy, New York.

Philadelphia—John Walker, Youngstown, O.; Stephen Mortensen, Southampton, Pa.; Adam Graham, Cleveland, O.; J. C. Vaughan, Chicago, Ill.; Henry Penn, Boston, Mass.; M. A. Vinson, Cleveland, O.; John J. Perry, mgr. Pennock-Meehan Co., Baltimore, Md.; Edwin A. Seidewitz, Baltimore, Md.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK
Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission
Consignments of
Good Stock Solicited
PERCY W. RICHTER, Mgr., NEW YORK
111 W. 28th Street

HERMAN WEISS

Wholesale Florist
Experienced, Progressive and can handle
shipments of growers' product
satisfactorily.
106 West 28th St., NEW YORK
Tel. Farragut 3066.

STRAIGHT WHOLESALE ONLY

FRANK MILLANG CUT FLOWERS

55-57 W. 26th St., NEW YORK
NO DESIGNS MADE UP

Chicago—J. McHutchison, New York; John E. Lapes, Cedar Rapids, Iowa; W. L. Topel, L. S. Donaldson Flower dept., Minneapolis, Minn.; Claude Wisely, Murphysboro, Ill.; R. A. Latham, Minneapolis, Minn.; Geo. Pandell, Fort Wayne, Ind.; Wm. Fenger, Toledo, Ohio; E. H. Kline, Edwardsville, Ill.; C. B. Knickman, New York; E. Fruyling, Grand Rapids, Mich.; A. T. Bushong, Gary, Ind.; Robt. Blake, Toledo, Ohio.

ROBERT DYSART CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED.
40 STATE ST. - - - BOSTON
Telephone Main 58.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

W. H. Elliott, Brighton, Mass.
Asparagus Plumosus Nanus.
For page see List of Advertisers.

Asparagus Plumosus Seedlings, \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

ASTERS

ASTER PLANTS, Crego and Semple's, mixed and separate colors. Strong, well-rooted plants, shipped prepaid, 60c. per 100; \$3.90 per 1000. HARRY E. SQUIRES, Remsenburg, N. Y.

AUCTION SALES

The MacNiff Horticultural Co.,
New York City.
For page see List of Advertisers.

Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price-list.
JULIUS ROEHR'S CO., Rutherford, N. J.

BEDDING PLANTS

F. R. Pierson Co., Tarrytown, N. Y.
Miscellaneous Greenhouse and Bedding Plants.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

C. C. Trepel, Brooklyn and New York, N. Y.

W. A. Riggs, Auburndale, Mass.
For page see List of Advertisers.

Bedding plants: Geraniums, Nutt. Ricard, Poitevine, Viand, Buchner and Rose Geraniums, 3½ in. and 4 in., \$6.00 and \$8.00 per 100. Cannas, Austria and Robusta (bronze), 3½ in., \$6.00 per 100. Heliotrope (dark), 3½ in., \$6.00 per 100. Salvia, Bunte, 3½ in., \$5.00 per 100. Dracena indivisa, 5 in., \$20.00 per 100. Salleroi geraniums, Coleus Trailing Queen, double Sweet Alyssum, Begonia Vernon, white Marguerites, blue Ageratum, 3 in., \$4.00 per 100. Cash.
F. SOKOL, College St., Worcester, Mass.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
Rex Begonias.
For page see List of Advertisers.

BEGONIAS

Lorraine, 2½ in. pots, \$12.00 per 100; Cincinnati, 2½ in. pots, \$15.00 per 100; Mrs. J. A. Peterson (New), 2½ in. pots, \$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHR'S CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Hitchings & Co., New York City.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

BOX TREES—Standards, Pyramids and Bush. Price list on demand.
JULIUS ROEHR'S CO., Rutherford, N. J.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
Gladioli.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
Lily Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Forcing Bulbs and Plants.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Mr. B. Progressive, Florist,
Everywhere, U. S. A.

Dear Sir: It will be a decided advantage as regards prices and quality to place your order with us.

Soliciting your order through this ad cuts down the overhead selling expenses and you positively get lower prices and better quality. Our terms are liberal and are a guarantee that you get a square deal, all bulbs guaranteed true to name or money refunded.

Write us and upon request we will mail you our booklet giving prices f. o. b. New York or Chicago, and we also cheerfully furnish you with any information that may be desired. Those of our friends who will mail us a list of their requirements will find it has paid them to do so.

Awaiting to hear from you at your pleasure, we remain,
Yours very truly,
Westerbek & Klynn,
Sassanheim, Holland.

Write to WESTERBEK & KLYNN, 14 STONE ST., NEW YORK, N. Y.

BULBS AND TUBERS—Continued

Henry F. Mitchell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

CANNAS

Rowan J. Irwin, New York City.
For page see List of Advertisers.

CANNAS, TWENTY VARIETIES, ALL COLORS, \$6.00 PER HUNDRED. SEND FOR LIST TODAY. THE CONARD & JONES COMPANY, WEST GROVE, PA.

CARNATIONS

Cottage Gardens Co., Inc., Queens, N. Y.
New Carnation Cottage Maid.
For page see List of Advertisers.

F. Dörner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 postpaid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
Pompon Chrysanthemums.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Early Lavender Pink Chrysanthemum
Alex Guttman, also Emma, a Garza
Anemone, Double Pompon,
pale pink.

Chrysanthemums Maj. Bonnafon, rooted cuttings, \$1.25 per 100; 3-inch, \$1.00 per 100. Cash. CHAS. H. GREEN, Spencer, Mass.

For Sale About 500 extra good Odessa out of 2½ in. pots, \$8.00 per 100. Cash with order. E. G. BLANEY, 163 Burrill St., Swampscott, Mass.

Chrysanthemums Yellow Bonnafon, White Bonnafon, Halliday, Chas. Razer, Chieftain and Pacific Supreme rooted cuttings, \$10.00 per 1,000; topped plants out of 1000, \$15.00 per 1,000. Cash, please. CHAS. H. RICE, Bedford St., Lexington, Mass.

CYCLAMEN

CYCLAMEN. Best strain. Separate colors or mixed, 3 in. pots, \$8.00 per 100, for May delivery.
JULIUS ROEHR'S CO., Rutherford, N. J.

DAHLIAS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

For List of Advertisers See Page 3

DAHLIAS—Continued

Send for Wholesale List of Whole clumps and separate stock; 40,000 clumps for sale. Northboro Dahlia and Gladiolus Gardens J. L. MOORE, Prop., Northboro, Mass.

IF YOU INTEND growing Dahlias for cut flowers then you will make no mistake if you will try my assortment, especially selected for cut flower production. Three whites, 3 pinks, 1 red, 1 yellow, 1 lavender, 1 fancy; all field roots, labeled true to name; per 100, 10 of each kind, \$3.00; per 1000, 100 of each kind, \$25.00. 50 at 100 and 500 at 1000 rates. Cash with order. Guarantee entire satisfaction. If interested in Dahlias, then please send for my wholesale trade list of Dahlias.

MANNETTO HILL NURSERIES,
W. A. FINGER, Prop., Hicksville, N. Y.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest. Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

EXCURSIONS

Hudson Navigation Co., New York City.
To the Heart of Lelsureland.
For page see List of Advertisers.

FERNS

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.

Collin Campbell, New York City.
Hyper-Humus.
For page see List of Advertisers.

FLORISTS' PLANT STOCK

Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums, 3 1/2 inch, to close out, \$5.00 per 100; strong plants. Cash. CHAS. H. GREEN, Spencer, Mass.

Geraniums S. A. Nutt, rooted cuttings, \$8.00 per 1,000; 2 1/4 in., \$15.00 per 1,000. First class stock. Cash. FRANK LEITH & SON, Haverhill, Mass.

500 Buchner, 3 in., 6 cents; 500 S. A. Nutt, 3 in., 6 cents. GEO. P. GRIDLEY, Wolfboro Falls, N. H.

GLADIOLI

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Forcing Gladioli.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset, Boston.
Pecky Cypress.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

John C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.

Hitchings & Co., New York City.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Boston, Mass.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit, Mich.

For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

The Leo Niessen Co., Philadelphia, Pa.
New Crop Dagger Ferns.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

Palisades Nurseries, Inc., Sparkill, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HAET'S HANDY HANDLE

Geo. B. Hart, Rochester, N. Y.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co., Chicago, Ill.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Mass.

Lord & Burnham Co., New York City.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

HOTEL ACCOMMODATIONS

Hotel Cumberland, New York City.

HYDRANGEAS FOR SUMMER BLOOMING

F. R. Pierson Co., Tarrytown, N. Y.
For page see List of Advertisers.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

IRIS

R. & J. Farquhar & Co., Boston, Mass.
German Iris.
For page see List of Advertisers.

John Lewis Childs, Flowerland, N. Y.
German Iris.
For page see List of Advertisers.

LILY BULBS

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc., New York City.
For page see List of Advertisers.

McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Japanese Lily Bulbs of Superior Quality.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hohmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Hatboro, Pa.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NON-WRINKLE DUSTER

G. L. Hamilton Co., Boston, Mass.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

writing to Advertisers kindly mention Horticulture

NURSERY STOCK—(Continued)

- The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.
- Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.
- Boblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.
- August Rolker & Sons, New York City.
For page see List of Advertisers.
- C. C. Trepel, Brooklyn and New York.
Nursery Stock and Bedding Plants
Bought.

NUT GROWING

- The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

ONION SETS

- Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

- Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

- Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

- Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

PANSY SEED

- Arthur T. Boddington Co., Inc.,
New York City.
For page see List of Advertisers.

PETUNIAS

- R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

PHOENIX CANARIENSIS

- In all sizes. Special price-list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

PEONIES

- Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

PECKY CYPRESS BENCHES

- A. T. Stearns Lumber Co., Boston, Mass.

PIPE AND FITTINGS

- Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.
- King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

- H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

- Chas. Schwake & Co., New York City.
For page see List of Advertisers.

- August Rolker & Sons, New York City.
For page see List of Advertisers.

- McHutchison & Co., New York City.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

- Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

RHODODENDRONS

- P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

- S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

- P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

- W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

ROSES—(Continued)

- Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

- A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

- W. H. Elliott, Brighton, Mass.
Grafted and Own Root Rose Stock.
For page see List of Advertisers.

- Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

- 275 two-year-old Sunburst, out of greenhouse bench, clean strong plants, ready July 1st, \$8.00 per 100, \$20.00 for the lot.
ROY A. HATCH, Cliftondale, Mass.

ROSE STAKES

- The Carnation Support Co.,
Connersville, Ind.
For page see List of Advertisers.

RUBBER PLANTS WANTED

- Alex McConnell, New York City.
For page see List of Advertisers.

SEASONABLE PLANT STOCK

- R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

SEEDS

- Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

- Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

- J. Boigtano & Son, Baltimore, Md.
For page see List of Advertisers.

- A. T. Boddington Co., Inc., New York City.
Seeds for Present Sowing.
For page see List of Advertisers.

- Chas. Schwake & Co., New York City.
For page see List of Advertisers.

- Michell's Seed House, Philadelphia, Pa.
Primula Seed.
For page see List of Advertisers.

- W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

- R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

- J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

- Loechner & Co., New York City.
For page see List of Advertisers.

- Ant. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

- S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

- W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

- Jas. Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

- August Rolker & Sons, New York City.
For page see List of Advertisers.

- Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

- Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

- Thomas J. Grey Co., Boston, Mass.
Mignonette, Improved Eclipse.
For page see List of Advertisers.

- Fottler, Fiske, Rawson Co., Boston, Mass.
Seeds for the Florist.

SHELF BRACKETS

- Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

- Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

SWEET PEA SEED

- Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet Peas.
For page see List of Advertisers.

TREE SURGERY

- The Davey Tree Expert Co., Kent, Ohio
For page see List of Advertisers.

VASES

- H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

- R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

- Celery Plants, Golden Self-blanching (French Strain), Giant Pascal and Winter Queen, fine plants, ready for the field, \$2.00 per 1,000; 5,000 for \$7.50. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

- VEGETABLE PLANTS—By mail or express prepaid. Strong, well-rooted plants in large or small lots at reasonable prices. Will probably replace any that do not arrive in 1st-class condition. Leading varieties, Cabbage, Tomato, Cauliflower, Celery, Sweet Potato, Asparagus, Rhubarb, Beet, Lettuce, Pepper, Egg Plants. Also Asters. Catalog free. HARRY E. SQUIRES, Remsenburg, N. Y.

VENTILATING APPARATUS

- The Advance Co., Richmond, Ind.
For page see List of Advertisers.

- The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

- Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VINCAS

- Vinca Var., 4 in., heavy, \$12.50 per 100; good, \$10.00 per 100; extra heavy, \$15.00 per 100. WILLIAM CAPSTICK, Auburndale, Mass.

WEED KILLER

- Pino-Lyptol Chemical Co., New York City.
Pino-Lyptol Weed Killer.
For page see List of Advertisers.

WHEAT SHEAVES

- H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

- W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

- Reed & Keller, New York City.
For page see List of Advertisers.

- WILLIAM E. HEILSCHER'S WIREWORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

- Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

- The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
For page see List of Advertisers.

Boston

- Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

- Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

- Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

- H. M. Robinson & Co., 32 Otis St. and 2 Winthrop Sq.
For page see List of Advertisers.

Brooklyn

- Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

- William F. Kasting Co., 353-87 Ellicott St.
For page see List of Advertisers.

For List of Advertisers See Page 3

WHOLESALE FLORISTS Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 264-266
Randolph St.
For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
For page see List of Advertisers.

Moore, Hentz & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Traendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

Woodrow & Marketos, 37 and 39 W. 28th St.
For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 53 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Guttman & Reynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunther Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 21 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.

New Offers In This Issue

BERMUDA AND FRENCH LILY BULBS — BAMBOO CANES — COLD STORAGE GIGANTEUM

Ralph M. Ward & Co., New York City.
For page see List of Advertisers.

BOSTON FERNS WANTED

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

EARLY FLOWERING SPENCER SWEET PEAS.

C. C. Morse & Co., San Francisco, Calif.
For page see List of Advertisers.

GIANT PRIZE PANSY SEED.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES.

August Rolker & Sons, New York City.
For page see List of Advertisers.

SPHAGNUM MOSS

The Leo Niessen Co., Philadelphia, Pa.
For page see List of Advertisers.

SUMMER ROSES

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

TREE SURGERY.

Davy Tree Expert Co., Kent, Ohio.
For page see List of Advertisers.

WHOLESALE FLORIST.

George W. Crawbuck Co.,
57 West 28th St., New York City.
For page see List of Advertisers.

NEW BOOK JUST ISSUED

Plant Propagation Greenhouse and Nursery Practice

By M. G. KAINS

So many discoveries of new facts by plant investigators, shortcuts and "wrinkles" worked out by plant propagators, and nursery, greenhouse and garden methods simplified or made more effective, have made books hitherto available on plant propagation out of date.

There has also been an insistent call for a volume that would not only include the character of information wanted by nurserymen and other plant propagators, but also discuss the subject of plant propagation from the standpoint of fundamental principles, and include the latest conclusions advanced by investigators throughout the world.

This new book by Professor Kains will appeal with equal force to the amateur, the professional propagator, and the teacher in agricultural colleges and schools.

The book devotes many pages to special plant lists and condensed directions for propagation of vegetables, fruits, annual and perennial flowers, bulbs, ferns, orchids, cacti, evergreens, deciduous trees and shrubs, vines, water plants, greenhouse and house plants and palms.

The table of contents includes: An introduction on general principles, germination, seed testing, potting, layerage, bottom heat, cuttage, classes of cuttings, graftage, and theories and laws, Daniel's experiments in graftage, tree stocks and scion handling, grafting waxes and wound dressing, methods of grafting considered individually, budding methods, nursery management, and laws affecting nursery stock.

Illustrated 5½x7½ inches. 342 pages.
Cloth. Price, net, \$1.50.

HORTICULTURE PUBLISHING CO.
147 Summer St., Boston, Mass.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as six words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 147 Summer St., Boston.

HELP WANTED

WANTED—August 1st, an experienced double entry bookkeeper, female, familiar with the greenhouse business. Apply to MRS. WM. W. EDGAR, Waverley, Mass.

SITUATIONS WANTED

NURSERY SITUATION WANTED—As foreman; wide experience in all branches of the business; expert knowledge in all forms of propagation. References. Address FOREMAN, care HORTICULTURE.

SITUATION WANTED as Gardener Assistant, first, either inside or out. British, middle age; life experience in the business; married, no children. Thoroughly up in the routine of work and cultivation. Satisfactory references. "X. Y. Z." care of HORTICULTURE.

FOR SALE

FOR SALE—One 6-inch Castle Circulator complete with motor, one 6-inch Blower for forced draught; 2½, 3 and 4-inch gate valves. Write if interested. CHAS. H. RICE, Bedford St., Lexington, Mass.

FLORIST'S BUSINESS FOR SALE. Fully equipped and doing a good retail business. On main thoroughfare, near two Cemeteries; 5c. fare from Boston. For particulars, call or write WILLIAM CHRISTIE, 39 Woodlawn Avenue, Everett, Mass.

MISCELLANEOUS

WANTED TO LEASE, immediately, with privilege of purchase, about 12,000-15,000 feet of glass. Easy reach of Boston preferred. Particulars to EDE, Willow Street Greenhouses, West Roxbury, Mass.

WANTED TO PURCHASE—Greenhouse property for retail trade. Must be in good condition. Give description and price. Address "W." 41 Porter Road, Cambridge, Mass.

THE NUT-GROWER

The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

In writing to Advertisers kindly mention Horticulture

Est. 1765

Inc. 1904

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

During Recess

THE WARETOWN OPENING.

June 23, 24 and 25 were three notable days in the history of Commodore John Westcott's club house at Waretown, N. J. Guest from New York, Boston, Chicago, Cleveland and other cities came to help celebrate the sixteenth annual opening of this haven of refuge from the cares of a busy world. There was also a good contingent

**THE MAC TAVISH.**

Derelict on the Beach at Waretown.

from Philadelphia. The weather was fine except on the 25th and everybody enjoyed the hospitality of the host and the sea breezes—with all the other side adjuncts in fun and frolic to suit every individual taste.

A feature of the occasion was the presentation to the Commodore of a \$300 pool table, the gift of Bo's'n

TO THE HEART OF LEISURELAND

where woods are cool, streams alluring, vacations ideal. Between New York City (with Albany and Troy the gateways) and

**LAKE GEORGE, THE
ADIRONDACKS, LAKE
CHAMPLAIN, THE
NORTH AND WEST**

The logical route is "THE LUXURIOUS WAY." Largest and most magnificent river steamships in the world—DAILY SERVICE.

Send for free copy of Beautiful "Searchlight Magazine"

HUDSON NAVIGATION CO.

Pier 32, North River

New York

"The Searchlight Route"

Trainer of Philadelphia. This will add greatly to the attractions of the bungalow for those who are devoted to that quiet, refined and delightful pastime which keeps many restless spirits out of mischief.

While out on the bay one of the party's boats was overhauled at Harvey Cedars on the 24th by what looked at first like a pirate craft but on closer inspection proved to be no more than an impetuous dash by two new arrivals—John Farquhar and "Bill" Stewart of Boston.

An attempt by the British fleet to recapture the Scottish cruiser MacTavish was foiled by the Sinn Feiners under the gallant leadership of Admiral Trainer and Bo's'n's Mate Donaghue. At last accounts the cruiser was still on the beach and the bold deft by aerogram from Admiral Trainer to Admiral Jellicoe was still unanswered. We would like to give you the wording of this deft but we are afraid it would burst the type.

Many beautiful speeches were made at the post-prandial exercises, one of the most feeling, philosophical and beautiful being by that picturesque seventy-seven-year old Adam Graham of Cleveland, O. Above all things Mr. Graham preaches "moderation" if we want to lead a long, healthy and happy life. Another notable contribution to the post-prandial was an original poem by J. C. Vaughan of Chicago. He voiced the sentiments of the old guard splendidly in the following lines:

THE OLD GUARD.

(Lines written by J. C. Vaughan, Chicago, Ill., addressed to Commodore John Westcott at the sixteenth annual opening of his Club House, June 23, 1916.)

The Old Guard greets the Commodore
At Waretown camp again,
Where stretch afar the seas that bore
The Argosies of Spain.

On Barnegat with the Commodore
John's called the boys once more,
Some near that port whence they depart
For an unknown shore.

Blue sky covers the summer day,
Hazy our straight away;
Shall the guard falter as the mists close in?
Shall the guard tremble, as the landmarks dim?

No! Haul her tight good Commodore,
Set her on the mark;
The sea's the Old Guard's open door.
Trackless path, and dark.

ENVOIE.

What tho the grey mist darkens
We'll hold her, head-on!
Though each for port bell hearkens
We're still with you, John!

The Commodore will be seventy-seven next birthday but he is hale and hearty as ever today and we all hope he may live to be a thousand.

GEORGE C. WATSON.

INTRENCHED AGAINST THE MOSQUITO.

Of in the stilly night,
Ere slumber's chain has bound me,
I feel the hungry 'skeeters bite,
Or hear them buzz around me.
Their drowsy hum
I hate, by gum!
Their gore I'd like to spatter!
But when, alas,
I make a pass,
Their bones I fail to scatter!
Thus in the stilly night,
Ere slumber's chain has bound me,
I wake and cuss with all my might,
The 'skeeters that surround me.
—Los Angeles Express.

The foregoing is a favorite recitation with the gentleman whose portrait accompanies these lines. Mosquitos and George C. Watson have been at war ever since that gentleman first landed



INTRENCHED AGAINST THE MOSQUITOS.

in this country sometime back in the last century. As one of the many million martyrs to the blood-thirsty Culex, Mr. Watson has fortified himself with remedies of many kinds, a few of which are seen in the picture, but he says that none of them are effective. However, the portrait of the gentleman himself is his latest and so characteristic that our readers will no doubt be pleased to see it.

FIELD DAY AT CROMWELL.

The Field Day at Cromwell Gardens, Connecticut, on Wednesday, June 21st, brought together a representative number of members of the National Association of Gardeners and the American Association of Park Superintendents from New York and New England points.

Delegates were met by representatives of the A. N. Pierson, Inc., at the trains, as they arrived at Hartford and Middletown, and escorted to the hotel at Middletown where they were received by Wallace R. Pierson and entertained at luncheon, after which the party proceeded to Cromwell. Arriving at Cromwell Gardens the guests were greeted by A. N. Pierson who welcomed them to the establishment of the company of which he is the head, after which the chiefs of the different departments escorted the visi-

PINO-LYPTOL

WEED KILLER

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

P.-L. CHEMICAL CO., 507-509 W. 19th St., New York

CORRESPONDENCE SOLICITED.

tors about the gardens and through the large greenhouse ranges.

Looking down upon the gardens on the approach from the roadway the eye beheld a magnificent sight in the acres of plantings which were one mass of gorgeous color. The rose garden was the centre of attraction, although the visitors found much of interest in the different outdoor departments, including the rock garden which is now under course of construction. The mammoth greenhouse proved a revelation to some of the visiting gardeners, where the roses, carnations and chrysanthemum plants, in untold quantities, were found in excellent condition, as were also the many other varieties of flowering and foliage plants in which this company specializes.

The company maintains its own dairy, private water system and box factory and after the inspection of the entire plant, the opinion was generally expressed that Cromwell Gardens may appropriately be classed as a "plant-growing industry." All the details for the entertainment of the party were carefully planned—the usual afternoon rain was not even omitted.

The visitors enjoyed their visit to Cromwell Gardens and when they entered the automobiles to make their train connections for home, they were in one accord that the day had been one full of interest and instruction.

CUCUMBER MOSAIC DISEASE.

(From Bulletin of U. S. Dept. of Agriculture.)

A new disease of cucumbers, known as the mosaic disease, has appeared during the past few years in commercial greenhouses and in fields where cucumbers are grown for pickling purposes. Recent investigations of the disease have resulted in the discovery that it is closely related to mosaic diseases of other plants, and the present indications are that it can be controlled by the introduction of sanitary measures and insect control methods.

The mosaic disease is commonly known in Michigan, Indiana, and Wisconsin as "white pickle." In Minnesota it is commonly called "nubbins." When plants are attacked while very young, they are markedly dwarfed by the action of the disease, growth is slow, the runners are very much shortened, the leaves are correspondingly reduced in size, the plants blossom sparingly, and the amount of fruit is very much reduced. When older plants become diseased the principal visible effects are on the subsequent growth of vines and fruit, the vine tips and leaves being dwarfed and mottled

and the fruit malformed as described elsewhere.

The leaves of diseased plants are dwarfed, often curled and wrinkled, and usually have a mosaic or marbled appearance in which areas of light and dark green alternate. In some cases the leaves brown and die back from the tip.

The fruits are very conspicuously affected, being dwarfed, more or less mottled or blotched with areas of darker green on a background of light green, greenish yellow, or almost white. In the most decided cases the green areas are raised and appear as definite warts or protuberances, sometimes of considerable size, and the fruits take on many abnormal shapes. In some cases the fruits are almost white, hence, the name "white pickle." This name probably is due to a confusion of this diseased condition with the white or albino plants which typically bear white-colored pickles, and which have been known to occur occasionally in fields for many years. The discoloration and warty condition of the fruits, which often appear on cucumbers not more than an inch or two long, render them unfit for pickling purposes, so that in addition to the great reduction in yield caused by the disease, many, if not all, of the fruits produced by diseased vines are unmarketable.

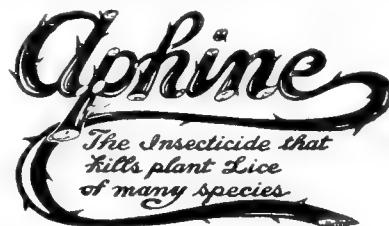
In the greenhouse the disease is quite similar in its principal symptoms to those found in the field, the principal difference being that the disease appears to be more virulent, many of the plants wilting and dying.

Nature of the Disease.

The mosaic disease belongs to the same class as the other mosaic diseases of tobacco, potato, tomato, poke weed, and other plants, which have been known for some time. The exact cause has not been discovered, but it is considered to be what is known as a filterable virus, an agent of infection which is so finely divided that it will pass through a porcelain filter and still retain its ability to reproduce the disease when injected into healthy plants. The sap or juice of any portion of a diseased vine if injected into a healthy vine will produce the disease. The period of incubation, that is, the time which elapses from the inoculation of the vine to the first visible symptoms of the disease, in the greenhouse is from 7 to 14 days, while in the field it is usually 14 to 25 days. The agencies of transmission of the disease from diseased to healthy plants are doubtless many. It has been definitely proven that plant lice transferred from diseased to healthy plants will carry the disease. It is highly probable that other insects will be found

to act as carriers. It is also practically certain that the disease is spread by pickers when harvesting the cucumbers.

Rigid insect control measures



The Recognized Standard Insecticide. A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON



NIKOTEEN

For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer For It.

NICOTINE MFG. CO.
ST. LOUIS

HYPER-HUMUS

PROVEN QUALITY

Best for Greenhouse, Nursery, Lawn and Garden

Price, \$5.00 Per Ton in Bulk, F. O. B. Cars

Further Information Upon Request

COLIN CAMPBELL

90 Nassau Street, NEW YORK CITY

should be started as soon as the plants are up and continued throughout the season. The fields should be gone over repeatedly throughout the season, especially previous to the beginning of picking, and all mosaic diseased plants pulled and destroyed, as well as plants with which they have come in contact. Owing to the fact that greenhouse conditions are much more completely under control than field conditions, it would seem an easier task to control the disease there. As previously stated for field control, all diseased plants should be pulled and destroyed as soon as found and the insects should be eradicated to prevent their spreading the disease.

In pastures where there are only a few clusters, the same treatment recommended for lawns is the most advisable. When the pastures are badly infested, however, and cultivation is practical, it is often more satisfactory to plow and cultivate as recommended for cultivated fields. Pasturing with sheep sometimes proves effective.—*Weekly News Letter*, U. S. Dept. of Agri.

NEWS NOTES.

Taunton, Mass.—V. B. Olson has bought the greenhouses of E. F. Rose on Bay street, and takes possession July 1st.

Saddle River, N. J.—Miss Helen J. Esler of Saddle River, N. J., and Mark McKinley Inskeep of Kenil, N. J., were married on June 24th at the home of the bride's parents. Mr. and Mrs. John G. Esler. Miss Esler was known to many members of the S. A. F. and O. H. as her father's assistant in Florists' Hail Association affairs.



NON-KINK WOVEN HOSE

In any length (one piece) with couplings, 14c. per foot. Unequaled at the price. Remnants, shorter than 50 feet, 10c. per foot, with couplings.

HOSE VALVE—70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.



DREER'S

Florist Specialties, New Brand, New Style. Hose "RIVERTON." Furnished in lengths up to 500 ft. without seam or joint.

THE HOSE for the FLORIST
 1/2-inch, per ft., 15 c.
 Reel of 500 ft., " 14 c.
 2 Reels, 1000 ft., " 24 c.
 1/2 in. h., " 23 c.
 Reels, 500 ft., " 12 c.

Couplings furnished
HENRY A. DREER,
 714 Chestnut St.,
 PHILADELPHIA, PA.

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts., Washington, D. C.

King Greenhouses

have a special type of iron-frame construction which lends itself to graceful sweeping lines and yet permits great strength without the need of heavy shadow-casting supports.

In a King the plants get all the sunlight all day long, so it's easy to produce a growth and bloom fairly tropical in luxuriance.

When you write for Bulletin No. 47 tell us what you have in mind and let our experts show you how artistic a greenhouse really can be. We will work your ideas into a practical sunny King Greenhouse which will in itself be the beauty spot of your garden.

KING CONSTRUCTION COMPANY

28 Kings Road, North Tonawanda, New York

Boston Office
 113 State St.

Philadelphia
 Office
 Harrison Bldg.
 15th and
 Market Sts.



GREENHOUSES BUILDING OR CON- TEMPLATED.

Kansas City, Mo.—A. Mohr, one house.

Tupelo, Miss.—Tupelo Floral Co., additions.

Litchfield, Ill.—Cottage Greenhouses, one house.

Greensburg, Pa.—George S. Ferguson, one house.

Boston, Mass.—H. P. Falk, 33 Berry street, one house.

Newport, R. I.—Miss Edgar, Sunny-side place, one house.

Kingston, N. Y.—Geo. F. Polley, 63 O'Neil street, two houses.

Columbus, Miss.—Columbus Floral Co., two houses each 24 x 100.

Mishawaka, Ind.—David Pugh, Cedar street and Edgewater drive, range of houses.

At the estate of Walter Hunnewell in Wellesley, Mass., the old greenhouses are being replaced by a range of modern steel, curved-eave houses to be erected by the King Construction Co., consisting of palm house 25 x 60 ft., orchid house 25 x 60 ft., carnation house 25 x 60 ft., plant house 25 x 60 ft., grapery 25 x 60 ft., each house being divided into two compartments. The range is to be novel in that instead of the usual way of having the growing houses "valley" into the palm house they are to be connected with the palm house by small passages, and the palm house in turn is connected with the potting shed by means of a passage 12 x 16 ft., which will be used for propagating. Patten & Co., Tewksbury, Mass., have placed an order for the erection of a King house 42 x 200 ft., iron-frame. James

Wheeler of Natick has also given an order for the materials for a semi-iron house, 35 x 200 ft. These contracts were taken by P. A. Gavin, Boston representative, whose office is at 113 State street.

PATENTS GRANTED.

1,184,707. Hoe. REXDALE S. B. ADAMS, Smyrna, Me.

1,184,856. Garden-Tool. THEODORE G. JOHNSON, Kansas City, Mo.

1,185,525. Floral Rack. WILLIAM H. MORRIS, Dayton, Ohio; LILLIA A. MORRIS administratrix of said William H. Morris, deceased.

1,185,581. Garden Implement. ADELBERT S. BEYMER, Kansas City, Mo.

Hartford, Conn.—E. J. Welch, florist, who five years ago obtained a divorce from his first wife, is now a defendant in the suit of his second wife for divorce. Welch is contesting the case.

Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.
HENRY A. DREER,
 714 Chestnut Street,
 Philadelphia.

FULL
 SIZE
 No 2

THE FLORISTS' HAIL ASSOCIATION

Is a mutual organization, insuring greenhouse glass against hail. Both commercial and private establishments are accepted. For particulars, address

John G. Esler, Sec., Saddle River, N. J.
 Insure Now.

FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, - - - - - CHICAGO, ILL.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

KROESCHELL BOILER

SEND FOR CATALOGUE



KROESCHELL BROS. CO.

466 W. Erie St. Chicago, Ill.



EVERYTHING FOR THE GREENHOUSE
John G. Moninger Company

CHICAGO NEW YORK
922 Blackhawk St. 812 Marbridge Bldg.
CINCINNATI, 2314 Union Central Bldg.

GLASS

GREENHOUSE MATERIAL
HOT-BED SASHES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

MASTICA



For Greenhouse
Glazing

USE IT NOW

F. O. PIERCE CO.

12W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

Seal-tight liquid putty at \$1.25 per gallon.
METROPOLITAN MATERIAL CO.
1392-1414 Metropolitan Ave., Brooklyn, N. Y.

MOST PRACTICAL Shelf Bracket

On this Shelf Bracket 2 6-inch boards; or 2 1-inch or 1 1/4-inch pipes are placed, and can be clamped to either ridge or purlin columns.

20c

With Bolts
Complete

FLATS

12x20x3 inches
6 3-4 cents

METROPOLITAN MATERIAL CO.
1392-1414 Metropolitan Ave., Brooklyn, N. Y.



Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

Quality Greenhouses

At Minimum Cost

For Greenhouses of recognized merit,

For Greenhouses of proven dependability.

For Greenhouses of the very finest material and construction,

For Greenhouses which have demonstrated for over 45 years, that

WE KNOW WHAT TO DO
AND WHAT NOT TO DO

See Us!

S. Jacobs & Sons

Greenhouse Builders

1359-1385 Flushing Avenue
BROOKLYN, N. Y.

PATENTS

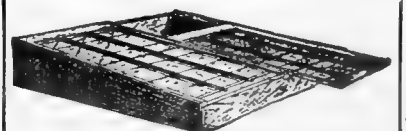
Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



HOTBED SASH at 75c. each
Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.
Double Light Sash up to \$4.00.

We carry a large stock of all sizes.
Write us for estimate.

S. JACOBS & SONS
1359-1385 Flushing Avenue BROOKLYN, N. Y.

When writing to advertisers kindly
mention **HORTICULTURE**.

GET OUR CATALOGUE

On Ventilating Apparatus and Greenhouse Fittings
ADVANCE CO., RICHMOND, IND.



Note that the side ventilating rods are brought down beneath the bench. Hand wheels are on side of bench out of way.

Some Construction Reminders

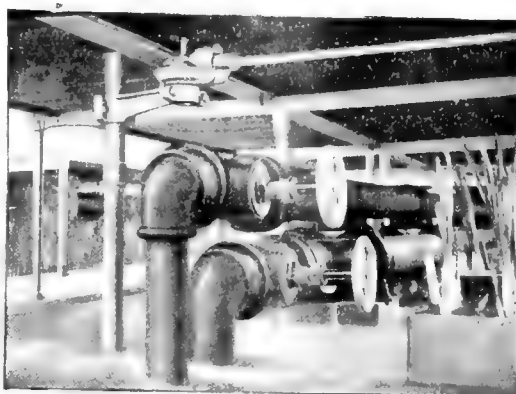
LEST the much "selling talk" about other private houses, may temporarily allow you to forget some of the distinctive strong points about ours, let's just run over a few of them.

1. The curved roof bars are re-inforced with bands of steel inserted in the bars that run from the gutter to the purlin.
2. All gutter leaders are copper—not tin or galvanized iron painted.
3. The side vents are now operated from hand wheels on side of bench, and the rods are beneath the bench. Close up arms are used. No more injuring plants as is bound to happen with the old brake wheel twisting method.
4. Both heating returns and flows on short coils unless otherwise specified, are valved separately. No more backing up of the hot water in the returns, spoiling your temperature control.
5. The gutter end stops are of cast iron, the same as the gutter. We flatly refuse to use a wood stop.
6. All materials are painted one coat before leaving the factory.

We go anywhere for business. Or to talk business.



How the semi-curved construction looks from the outside.



Both the flow and return pipes are valved. Note vent gear above pipes.

Hitchings and Company

NEW YORK
1170 Broadway

BOSTON
49 Federal Street

PHILADELPHIA
40 S. 15th Street

General Offices and Factory: Elizabeth, N. J.

Vol. XXIV
No. 2
JULY 8
1916

HORTICULTURE



Lilium Willmottae

A New Introduction From China.



Boddington's Re-selected Winter-flowering Spencers as grown by Wm. Sim, Cliftondale, Mass.

Boddington's Winter-Flowering Spencer Sweet Peas

The New Sensational Australian Spencer Winter-Flowering Sweet Peas

The following varieties are, without doubt, the greatest and most valuable novelties introduced since the famous Yarrowa Spencer marked the commencement of a new era in Winter Sweet Peas. Owing to the intense drought in Australia, the crop of this splendid Sweet Pea is very short and our stock is limited; we therefore advise early ordering, to avoid disappointment.

NOW READY FOR DELIVERY

CONCORD DAYBREAK

Cream with standard heavily edged buff-pink. As the flower opens the cream changes to almost white, and the cream pink edging to a faint rosy tinge. Pkt. (18 seeds) 75 cts.

CONCORD CHARM

Combines the delicate shades of white and blue-white wings and very light heliotrope standard, shading to nearly white.

CONCORD COUNTESS

Most attractive tint of pink, the ideal flower color.

CONCORD COQUETTE

Has a white ground, faintly marked or mottled light rosy carmine, the standard showing color more heavily than the wings.

CONCORD EMPEROR

A rich crimson red variety. One of the best and most useful varieties in this class.

CONCORD PURPLE

Delightful shade of mauve purple, changing, as the flower ages, to purple-blue.

CONCORD RADIANCE

A very striking shade of rosy magenta; this variety is one of the showiest. The color varies according to the age of the flower, but this adds to its attractiveness.

CONCORD WINSOME

Of a delightful shade of pink, tinted lavender; a most fascinating color. A specially beautiful variety.

COERULEA

A glorious Sweet Pea of the most delightful shades of delicate sky-blue, sometimes a little lighter.

RUBY

A glowing light crimson-scarlet color, blooms of good size. Spencer form, carried in threes, well placed on good wiry stems.

SALMONEA

A rich rosy salmon variety of great merit.

Prices on all the foregoing, except Concord Daybreak: Pkt. (18 seeds) 35 cts.; 5 pkts. \$1.50.

Yarrowa

Bright rose pink, with light wings. Seed sown early in September will flower about December 1, and bloom profusely and continuously until May. They are borne usually in fours on extra long, strong stems. Awarded Certificate of Merit, International Flower Show, New York, 1914 and the Pennsylvania Horticultural Society, March, 1915.

Introducers re-selected stock	1/4 oz.	1 oz.	1/4 lb.	1 lb.
California grown seed	\$8.00	\$2.00	\$7.00	\$24.00
	35	1.00	3.50	12.00

Popular Spencer Winter Sweet Peas of Recent Introduction

The varieties offered below are now too well-known to need much description; we classify colors to make ordering easy. All our stocks are re-selected and can be thoroughly relied upon to come true to description and color.

Pink and White

	1/4 oz.	1 oz.	1/4 lb.	1 lb.
Christmas Pink Orchid. Standard bright pink, wings white, an improvement over the Pink and White Orchid.	\$1.00	\$3.00	\$10.00	\$25.00
Pink-and-White Orchid. Similar in color to Christmas Pink, but produces a larger flower on longer stems.	.25	.75	2.50	9.00
The Czar. Standard rose, wings white, mottled with pink; strong grower.	.25	.75	2.50	9.00

Pink and Light Pink

	1/4 oz.	1 oz.	1/4 lb.	1 lb.
Bohemian Girl. One of the finest pink selfs. The same shape as Mrs. A. A. Skach, but the color is darker, with light scarlet blush.	\$8.50	\$1.50	\$4.50	\$15.00
Fordhook Pink. The color is a beautiful rose pink on white ground shading deep pink toward the edge of the standard and wings.	1.00	3.00	10.00	25.00
Morning Star. Exceptionally large flower of self pink color.	1.00	3.00	10.00	25.00
Mrs. Jos. Mandl. Large shell pink with extra long stem. Flowers very ruffled, becoming a brick red pink the longer they are out.	.40	1.25	3.75	14.00
Miss Florence Roland. Large pink with salmon; fine shape and good grower.	.50	1.50	4.50	15.00
Mrs. A. A. Skach. Beautiful, clear, bright pink. Much larger than Countess Spencer and slightly darker.	.35	1.00	3.50	12.00
Rose Queen. A pink of sterling merit and of most pleasing shade. Sown indoors July 25, first flowers picked October 1, continued blooming until Easter. Could not be improved upon.	1.70	5.00	18.00	65.00
Selma Swenson. The color is clear light, soft pink with wavy petals.	1.00	3.00	10.00	25.00
Yarrowa. Bright rose-pink. The best pink for florists. Continuous bloomer, almost always 4 flowers on a stem. Introducers re-selected stock. California grown seed.	.60	2.00	7.00	24.00
	.35	1.00	3.50	12.00

White and Blush

	1/4 oz.	1 oz.	1/4 lb.	1 lb.
Bridal Veil. Pure white. In size and purity of color, one of the best.	\$8.35	\$1.00	\$3.50	\$12.00
Mrs. M. Spanolin. Double; white. Black seeded.	.35	1.00	3.50	12.00
Venus. Standard slightly blush-pink; in winter more white.	.50	1.50	4.50	15.00
White Orchid. Pure white; has stood the most critical tests.	.35	1.00	3.50	12.00

Red and Rose

	1/4 oz.	1 oz.	1/4 lb.	1 lb.
Belgian Hero. A beautiful rose colored variety. Handsome flower.	\$1.00	\$3.00	\$10.00	\$25.00
Fordhook Rose. A charming shade of rosy carmine. Well recommended.	1.00	3.00	10.00	25.00
Orchid Beauty. Dark rose pink, with orange blush.	.25	.75	2.50	9.00
Red Orchid. Bright cherry-red, very fine shape, large and free bloomer.	.35	1.00	3.50	12.00
Sensation Scarlet. Early, very productive and throws three to four flowers in stems. Bright scarlet.	1.00	3.00	10.00	25.00

Apricot and Orange

	1/4 oz.	1 oz.	1/4 lb.	1 lb.
Apricot Orchid. Mostly apricot self. A cross between Miriam Beaver and Mrs. A. A. Skach.	\$8.60	\$1.50	\$4.50	\$15.00
Orange Orchid. Standard orange, wings dark salmon pink, beautifully colored and formed.	.60	1.50	4.50	15.00

Lavender and Blue

	1/4 oz.	1 oz.	1/4 lb.	1 lb.
Anita Wehrmann. A beautiful shade of lavender. Large flowers, long stems, very prolific and well fixed.	\$1.00	\$3.00		
E. Burke. The flowers are large, borne usually in fours on long strong stems; very early and fixed. We recommend this as the best lavender winter-flowering Spencer to date. Trade pkt. (25 seeds) 50c.	2.50	6.00		
Mrs. John M. Barker. The standard is blue, with glistening dark rose, wings light blue on white ground.	.50	1.50	4.50	15.00

New crop seeds ready for delivery in late July and early in Aug.

Any other variety not in above list can be supplied.

ARTHUR T. BODDINGTON CO., Inc., 128 Chambers St., New York City

GERANIUMS

We have a splendid stock of 2-in. and 3-in. Geraniums at \$2.00 per 100, \$18.50 per 1000 for 2-in.; and \$3.00 per 100, \$25.00 per 1000 for 3-in. We will send one thousand made up of an assortment of 50 each of 20 varieties, our selection, for \$18.50 per 1000 for 2-in., and \$25.00 per 1000 for 3-in.

POMPON CHRYSANTHEMUMS

We list over 100 varieties, \$2.00 per 100; \$18.50 per 1000.

	2-in. 100	2-in. 1000	3-in. 100	3-in. 1000		2-in. 100	2-in. 1000	3-in. 100	3-in. 1000
ALYSSUM, Dwarf and Giant.....	\$2.00	\$18.50	\$3.00	\$25.00	PARLOR IVY, S. Scandens.....	\$2.00	\$18.50	\$3.00	\$25.00
BEGONIA, Vernon.....	2.00	18.50	3.00	25.00	SALVIA, Bonfire and Zurich.....	2.00	18.50	3.00	25.00
COLEUS, ten varieties.....	2.00	18.50	3.00	25.00	SENECIO ARGENTÆUS (or Dusty Miller).....	2.00	18.50	3.00	25.00
CUPHEA PLATYCENTRA.....	2.00	18.50	3.00	25.00	SWAINSONA, White.....	2.00	18.50	3.00	25.00
LEMON VERBENAS, six varieties.....	2.00	18.50	3.00	25.00					
MOONVINES.....	2.00	18.50	3.00	25.00					

CABBAGE. All Head, Ball Head, Flat Dutch, Savoy and other varieties \$1.00 per 1000; 10,000 and over, 85c. per 1000.
CELERY. White Plume, Giant Pascal and Golden Heart, \$1.00 per 1000; 10,000 and over, 85c. per 1000.

CASH WITH ORDER.

R. VINCENT, Jr., & SONS CO.,

**WHITE MARSH,
MD.**

LILY OF THE VALLEY PIPS

Danish and German Stock

Booking Orders now for
1916 Crop

LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

Valley

GERMAN, SWEDISH
AND DUTCH PIPS

CHAS. SCHWAKE & CO., Inc.

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co., 62	Crawbuck, Geo., 55	Hail Association, 60	McConnell, Alex., 48	Poehlmann Bros., 52	Smith, P. J., 54
Albany Cut Flower Ex., 54	Dards, 48	Hart, Geo. B., 54	MacNiff Horticultural Co., 37	Pulverized Manure Co., 61	Smith & Fetters, 49
Allen, J. K., 55	Davenport, A. M., 57	Henderson, A. & Co., 47	Marshall, W. E. & Co., 47	Randall's Flower Shop, 48	Smith, W. & T., Nursery Co., 37
Anderson, S. A., 49	Dreer, H. A., 60	Hess & Swoboda, 49	Metropolitan Material Co., 60-62	Reed & Keller, 52	Smyth, Wm. J., 49
Anglin & Walsh, 36	Dorner, F. & Sons Co., 36	Hows, A. H. & Co., 60	Michell, H. F. Co., 47	Reid, Edw., 52	Stearns, A. T. Lumber Co., 60
Aphine Mfg. Co., 61	Dunlop, John H., 49	Hill, E. G. C., 52	Michigan Cut Flower Ex., 52	Reuter's, 49	Stuupp, G. E. M., 48
Badgley & Bishop, Inc., 54	Dysart, Robt., 54	Hill, D. Nursery Co., 37	Millang, Chas., 54	Riedel & Meyer, 54	Thorburn, J. M. & Co., 47
Barrows & Son, 38	Eastern Chemical Co., 61	Holland Nurseries, 37	Millang, Frank, 35	Robinson, H. M. & Co., 55	Totty, Chas. H., 38
Bayersdorfer, H. & Co., 51	Edwards Folding Box Co., 52	Holm & Olson, 48	Moninger, J. C. Co., 62	Robinson, H. M. Co., 54	Traendly & Schenck, 54
Bay State Nurseries, 37	Elliott Auction Co., 36	Hudson Navigation Co., 60	Murray, Samuel, 48	Roehrs, J. Co., 36	United Cut Flower Co., 55
Bobbink & Atkins, 37	Elliott, W. H., 36-37	Irwin, R. J., 47	National Nurseryman, 37	Roland, Thomas, 50	Valentine, J. A., 48
Boddington, A. T., 54	Ernest, W. H., 60	Jacobs, S. & Sons, 62	Nicotine Mfg. Co., 61	Rolker, A. & Sons, 37	Vick's, James Sons, 47
Bolignano & Son, 47	Esler, J. G., 60	Kasting, W. F. Co., 52	Niessen, Leo Co., 52	Rosory, The, 48	Vincent, R., Jr., & Sons Co., 35
Breck, J. & Sons, 47	Evans, J. A. Co., 62	Keller, J. B. Sons, 48	Nut Grower, 59	Salter Bros., 49	Wants, For Sale, 59
Breitmeyer's, J. Sons, 48	Eyres, 49	Kerr, the Florist, 49	Ouwerkkerk, P., 37	Schling, Max., 48	Ward, R. M. & Co., 47
Budding, J. A., 52	Farquhar, R. & J. & Co., 47	Kervan Co., 54	Palisades Nurseries, 38	Schwake, Chas. & Co., 35	Weber, F. C., 49
Bunyard A. T., 48	Foley Mfg. Co., 62	King Construction Co., 62	Palmer, W. J. & Son, 49	Sharp, Partridge & Co., 62	Weiss, Herman, 55
Burnett Bros., 47	Ford, W. P., 54	Knoble Bros., 49	Park Floral Co., 48	Sheridan, W. F., 54	Welch's, 52
Burpee, W. A. & Co., 47	Ford, M. C., 54	Kramer, F. H., 49	Parchelsky Bros., 62	Siebrecht, Geo. C., 51	Welch Bros. Co., 52
Campbell, Colin, 61	Frost, Chas., 38	Knebler, W. H., 54	Pelicans, Rossi & Co., 50	Siebrecht, W. R. & Co., 54	Welch, Patrick, 55
Carnation Support Co., 37	Froment, H. E., 22	Lange, H. F. A., 49	Penn the Florist, 49	Singers & Sig., 62	Wood Bros., 36
Carter's Tested Seeds, Inc., 46	Fottler, Fiske, Rawson Co., 47	Leonard Seed Co., 47	Pennock-Mechan Co., 53	Schelsky, S. S. & Co., 47	Woodrow & Mar. Kotos, 52
Childs, John Lewis, 38	Galvin, Thos. F., 49	Loechner & Co., 35	Pierce C. F. O., 62	Smith, J. H. & Sons, 50	Young, John & Co., 54
Clark's, D. Sons, 48	Gasser Co. J. M., 49	Lord & Burnham Co., 63-64	Pierson, A. N., 36	Smith, Elmer D. & Co., 36	Young & Nugent, 48
Cleas, R. W., 28	Graham, Adam & Son, 49	McHutchison & Co., 36	Pierson, F. R., 36		Zinn, Julius, 48
Coan, J. J., 55	Grey, Thos. J. Co., 47	McManus, Jas., 54	Pino-Lyptol Co., 61		Zvolnick, Ant., 47
Cooke, Geo. H., 48	Gude Bros. Co., 48				
Cowee, W. J., 52	Gunther Bros., 55				
Craig, Robt. Co., 37	Guttman & Raynor, 54				

**FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 56, 57, 58, 59**

HYDRANGEAS FOR SUMMER-BLOOMING

We have an unusually fine stock of hydrangeas,—fine symmetrical plants, well shaped and well budded. They are just beginning to bloom and will remain in bloom during July and August. These plants are in great demand at summer resorts for lawn and piazza decoration.

We have a fine lot of Otaksa, strong plants in 5-inch pots, one to two flowers each, at \$3.00 per dozen; also in 6-inch pots, two to four flowers each, with buds well advanced, showing color, at \$6.00 to \$9.00 per dozen.

We offer, also, the following varieties in 14-inch tubs: Otaksa and the new French varieties.—Avalanche, Fraicheur, E. G. Hill, La Lorraine, Mme. Maurice Hamar, Mme. E. Moudilhe, Mile. Renard Gaillard, and Radiance. These are good sized plants in tubs, very well budded. \$3.00 and \$4.00 each.

We have, also, fine specimen plants of Otaksa in half-barrels—fine large specimens, well budded. \$10.00, \$12.50 and \$15.00 each.

FERNS

Nephrolepis elegantissima compacta, 2½-inch pots, \$6.00 per 100; 3½-inch, \$3.00 per dozen; 6-inch, \$6.00 per dozen.

Nephrolepis elegantissima, 2½-inch pots, \$6.00 per 100; 6-inch, \$6.00 per dozen; 8-inch, \$12.00 per dozen.

Nephrolepis Teddy, Jr., 2½-inch pots, \$6.00 per 100; 3½-inch, \$2.00 per dozen, \$15.00 per 100; 6-inch, \$6.00 per dozen; 8-inch, \$12.00 per dozen.

Nephrolepis Smithii, 3½-inch pots, \$3.00 per dozen; 5-inch, \$6.00 per dozen.

Nephrolepis muscosa, 3½-inch pots, \$3.00 per dozen.

BOXWOOD—Pyramids, 3 ft. high, \$2.50 each; 3½ ft. high, \$3.00 each; 4 ft. high, \$4.00 each.

DRACAENA INDIVISA—Fine large plants for centers of large vases—8 inch pots, \$2.00, \$2.50 and \$3.00 each.

FICUS ELASTICA—Fine plants, 6-inch pots, \$6.00 and \$9.00 per dozen.

ENGLISH IVY—Strong plants, 4-inch pots, bushy, \$12.00 per 100.

F. R. PIERSON CO., Tarrytown, New York

BEGONIAS

	Per 100	Per 1000
Mrs. J. A. Peterson, 2 1-4-in. pots	\$25.00	\$200.00
Cincinnati, 2 1-4-in. pots	15.00	140.00
Lorraine, 2 1-4-in. pots	12.00	110.00

CYCLAMEN

Separate colors, finest strain, extra strong 3-in. pots
\$8.00 per 100, \$70.00 per 1000

JULIUS ROEHRS COMPANY
RUTHERFORD, N. J.

NOW IS THE TIME

To Fill up your empty benches with

Asparagus Plumosus Nanus

SEND FOR PRICES

W. H. ELLIOTT,

**BRIGHTON,
MASS.**

LILY BULBS

Fall Shipment from Japan

Prices quoted F.O.B. New York, Chicago, Denver, San Francisco and London (Ont.)

Write for quotations stating quantity, variety and size required.

McHUTCHISON & CO. The Import House
95 Chambers St., New York

OLDEST AUCTION HOUSE

IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co
42 Vesey St., New York

CHRYSANTHEMUMS

From 2½-in. Pots

Thanksgiving Queen, Unaka, Dolly Dimple, Elise Papworth, Intensity, Golden Dome, John Shrimpton, Lynwood Hall, Patty, Yellow Eaton, Unaka.

\$4.00 per 100, \$30.00 per 1000.

Autumn Glory, Ada Spaulding, Cullingfordii, Dr. Enguehard, Early Snow, Golden Glow, Geo. Kalb, Glory of the Pacific, H. W. Rieman, Money Maker, Maud Dean, Monrovia, Mrs. J. Jones, Miss Alice Byron, Mrs. Baer, Major Bonnaffon, Polly Rose, Pacific Supreme, Robt. Halliday, Smith's Advance, White Bonnaffon, W. H. Lincoln and Timothy Eaton.

\$3.00 per 100, \$25.00 per 1000.

WOOD BROS., FISHKILL, N. Y.

GARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ELMER D. SMITH & CO.
CHRYSANTHEMUMS

Ask for Catalogue

ADRIAN, - - - - MICH.

A. N. Pierson, Inc.
CROMWELL, CONN.

Bedding Plants and Roses

ANGLIN & WALSH CO.

Williamsbridge, N. Y.

Send for Monthly Plant Bulletin

HOLLAND GROWN BULBS

HYACINTHS, TULIPS, NARCISSUS, ROSE BUSHES, ETC.

Write for information about the *Mammoth Auction Sales* that we will hold during the coming Fall Season, of Holland's latest and choicest varieties

THE MacNIFF HORTICULTURAL COMPANY

52, 54 and 56 Vesey Street The Largest Horticultural Auction Rooms in the World NEW YORK CITY

BAILEY'S NEW STANDARD Cyclopedia of Horticulture

Six large quarto volumes.
More than 3,600 pages. 24
exquisite full-page color
plates. 96 full-page sepia
halftones and more than
4,000 text engravings. 500
collaborators. Approx-
imately 4,000 genera, 15,000
species and 40,000 plant
names.

The new Standard Cyclopedia of Horticulture has been freshly written in the light of the most recent research and experience. It is not merely an ordinary revision or corrected edition of the old Cyclopedia, but it is a new work from start to finish with enlarged boundaries geographically and practically; it supersedes and displaces all previous editions or reprints of every kind whatsoever. It is both an Encyclopedia and a Manual, for with the aid of its Synopsis and Key, amateur and professional alike may quickly identify any plant, shrub or fruit contained within the set, and then receive expert instructions for its cultivation. Price \$6.00 per volume. Four volumes have now been issued and the others will follow in succession. Order from

HORTICULTURE PUBLISHING CO.

147 Summer Street, Boston, Mass.

When writing to advertisers kindly
mention *HORTICULTURE*.

TREES

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties. Sturdy, choice stock that can be depended upon. Send for catalog and special trade prices.

The Bay State Nurseries

North Abington
Mass.

SHRUBS

This New England firm and climate produces fine, sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate.

ROSES

NEW YORK STATE TWO YEAR FIELDGROWN, FALL DELIVERY

POLYANTHAS: Rose Orleans, Cutbush, Jessie; Climbing: Excelsa, Tausendschoen, Perkins, White Dorothy, Crimson Rambler, Gardenia, American Pillar; H. P. Magna Charta, Laing, etc.; H. T. Testout, Teplitz, Killarney, Beauty, Kaiserin. Address

AUGUST RÖLKER & SONS, 51 Barclay Street NEW YORK
or P. O. Box 752

YOUNG ROSE STOCK

GRAFTED AND OWN ROOT

W. H. ELLIOTT, - - Brighton, Mass.

FERNS IN FLATS

Eight Best Varieties—200 Clumps to a Flat

\$2.00 per flat; 10 or more flats, \$1.90 each

A. M. DAVENPORT, Watertown, Mass.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
HATBORO, PA.

BOBBINK & ATKINS

Nurserymen, Florists
and Planters

RUTHERFORD, NEW JERSEY

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants
MARKET and 49th STREETS, PHILADELPHIA, PA.

Nursery Stock

Fruit and Ornamental Trees, Shrubs,
Small Fruits, Clematis, Evergreens
and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS,
AZALEAS, CONIFERS, CLEMATIS,
H. P. ROSES, SHRUBS AND HER-
BACEOUS PLANTS.

**P. OUWERKERK, 216 Jase St. Weehawken Heights
P. O. No. 1, Hoboken N. J.**

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY.
Small, medium and large sizes supplied.
Price list now ready.

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers in
America.

BOX 415, DUNDEE, ILL.

In Stock ROSE STAKES

EXTRA STIFF No. 9 GALVANIZED
WIRE

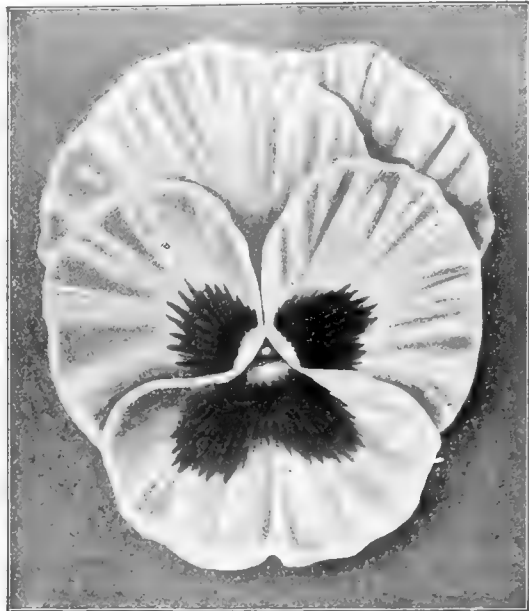
4 feet—\$11.90 per 1000.

CARNATION SUPPORTS

\$18.00 per 1000 plants.

THE CARNATION SUPPORT CO., Connerville, Ind.

THE KENILWORTH GIANT PANSY



82. **ORCHID FLOWERED, Mixed.** A dwarf, free bloomer, with a range of delicate colors that do not exist in any other Pansies: a remarkable combination of light rose shell pink, bluish mauve, fawn, light brown, orange and chamois.

New Early-flowering or Winter-blooming Giant Pansies

An entirely new and distinct strain of Pansies. The main advantage of these new Pansies over all hitherto existing Pansies is the extreme earliness of flowering and its unusual hardiness, which enables them to withstand quite severe Winters, and to bloom right on into the Summer. Sown at the same time as other Pansies, they begin flowering the early part of March or as soon as the snow is off the ground, many times having four or five large flowers to a plant, when all other Pansies are only showing buds. The flowers are large, well formed and fragrant. They are highly recommended for Autumn planting on graves and for very early bedding, as well as for early cut flowers.

- 14. **WINTER SUN.** Golden yellow, with dark eye.
- 15. **ICE KING.** Silvery white, with dark blue eye.
- 16. **CELESTIAL QUEEN.** Light or sky blue.
- 17. **CHARM OF MARCH.** Dark velvety blue.
- 18. **EACH COLOR SEPARATE OR MIXED.** The above four colors with other shades and variations. 500 seeds 50c., 1000 seeds \$1.00, 1/2 oz. \$2.00, 1/4 oz. \$3.75, 1 oz. \$15.00.
- 20. **PRINCESS.** The New Upright Pansy.

This strain is entirely distinct from all others. It is absolutely compact, upright growing, and extremely weatherproof, enduring many storms without damage to its flower. The flowers are mostly blotched and frilled like the Masterpiece, of good form and heavy, velvety texture, on heavy stems carried well above the foliage. Attractive by the brilliancy of its colors.

500 Seeds 20c., 1000 Seeds 35c., 1/2 oz. \$1.00, 1/4 oz. \$2.00, 1 oz. \$7.50.

FREE OFFER RAINBOW is a mixture of the most beautiful, gorgeous colors, blotched, striped, veined, margined, etc. With every \$1.00 worth of Pansy seed I will send, free, 1000 seeds of Rainbow and with other amounts in like proportion.

Seeds are sold grown by myself and are offered in the following mixtures and separate colors.

- 22. **GIANT KENILWORTH STRAIN.** The flowers are of perfect form and substance, many of the immense flowers are from 3 1/2 to 4 inches. It is a striking collection of beautiful colors and markings, rich, with shades of red, brown, bronze, mahogany and many others too numerous to mention. Light, Medium or Dark Mixtures.
- 24. **GIANT KENILWORTH SHOW.** An extra fine strain of large flowers; the immense flowers are of circular form and great substance. A beautiful collection of colors and markings.
- 26. **GIANT KENILWORTH CUT FLOWER MIXTURE.** Is a distinct class by itself, surpassing all other strains as a cut flower or for exhibition purposes, for inside or outside growing; the large flowers are carried erect above the foliage on heavy stems, 7 or 8 inches long, in the most graceful manner, and stand the hot, dry weather well.
- 28. **GIANT MASTERPIECE.** A remarkable type; the curled, wavy petals giving the flower a double appearance; large flowers of great substance, on long, strong stem.
- 30. **GIANT THREE AND FIVE BLOTCHED PANSIES.** A superb mixture. Flowers large and of circular form and of great substance. The display of coloring is unsurpassed. A combination of almost every shade of rich, velvety colors; reds are particularly conspicuous; the petals being distinctly marked with three or five large, dark blotches.
- 32. **GIANT PARISIAN.** The flowers are of enormous size and beautifully marked, mostly fine dark blotches on white and yellow ground; an unusually showy mixture.
- 34. **GIANT BRONZE.** A fine mixture of all shades of velvety brown, bronze, Havana brown, mahogany and copper shades.
- 45. **GIANT APOLLO (Masterpiece type).** New bronze, veined and blotched. Strongly frilled petals. A superb Pansy.
- 47. **GIANT ERFORDIA (New Red).** Of the Masterpiece type. The largest and best red. The result of ten years of selection. The color is of a deep, smooth, velvet red shading to scarlet, with curled petals and sweet scented.
- 49. **GIANT MERCURY.** New. A deep blackish purple, really self-colored, without blotches or spots. The flowers are extraordinary in size and substance, being the largest flowers of all self-colored Pansies.

Prices of Kenilworth Pansy Seed

All sorts and mixtures except the new Pansy Princess and the Early Flowering or Winter Blooming are \$5.00 per oz., \$1.25 per 1/4 oz.; 5000 seeds \$1.00; trade pkt. of 1000 seeds 25c.; any 5 pkts. \$1.00. Please order by number.

GIANT PANSY SEED In Separate Colors

- 8. Mme. Perret. Red and wine shades.
- 42. Adonis. Light blue, white center.
- 44. Black. Almost coal black.
- 48. Lord Beaconsfield. Purple, shaded white.
- 64. Goliath. Large, curled yellow, blotched.
- 68. Emp. William. Ultramarine blue, violet.
- 72. Emp. Franz Joseph. White, blotched blue.
- 98. Indigo Blue. Deep, velvety blue.
- 100. Light Blue Shades.
- 106. Pres. McKinley. Yellow, dark blotched.
- 114. Purple. Large, rich, deep color.
- 118. Psyche. Curled white; five blotches.
- 126. Red. A collection of rich red shades.
- 137. Vulcan. Dark red, with five blotches.
- 138. White. Large satiny white.
- 140. White with Violet Blotch.
- 142. Yellow. Large, gold, vel.
- 144. Yellow with Dark Blotch.
- 145. The preceding 18 colors separate or mixed. Mixed in equal proportions, 1000 seeds 25c.; any 5 packets, \$1.00.

Chas. Frost
Kenilworth,
N. J.

REMEMBER!

If it's a Hardy Perennial or so called Old Fashion Flower worth growing, we have it in one shape and another the year round. We have the largest stock in this country, all made in America, and our prices

will average 75c. per doz., \$5.50 per 100.

Why say more here? Send for our Wholesale Price List of varieties and benefit from the opportunities this affords you. Address

PALISADES NURSERIES, Inc.

R. W. CLUCAS, Manager.

SPARKILL

N. Y.

CHARLES H. TOTTY
CHRYSANTHEMUMS
MADISON, N. J.

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.
WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.
ROOSEVELTS—\$5 per 100, \$40 per 1000.
BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

OUR EXHIBIT OF GERMAN IRIS

Won **FIRST PRIZE** at the

International Garden Club, Summer Show, Pelham Manor
June 1-4, 1916

JOHN LEWIS CHILDS, INC.,
FLOWERFIELD L. I., N. Y.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Aerides

From now until the fall these should be treated liberally with water. Apply sparingly at first, and gradually increase to a generous supply. Where the compost is still in good condition a top dressing of live sphagnum is all that will be required. Remove the old material to the depth of an inch or so and replace with fresh sphagnum. Where the compost has become decayed or sour, it must be shaken out entirely and the roots cleaned by gently spraying and repotted in baskets. Frequent spraying or syringing is highly beneficial. The fresh roots absorb a great quantity of moisture from the atmosphere, and to grow them successfully one must give them lots of moisture.

Bulb Compost

Bulbs like a light and rather rich soil. One-third of the whole should be decayed manure. If you have any spent hotbed manure or such as has been used in the make-up of a mushroom bed, either of these is excellent for bulbs. A few shovels of soot and some sharp sand should also be added. Turn the soil over twice or thrice to thoroughly mix it. It will be some time before the French or Dutch bulbs arrive, but it is better to prepare a pile of compost for them now rather than when they are on the place. It is much better to leave out bone and all chemical fertilizers. These are more likely to be harmful than helpful. If you stacked up a pile of sod and cow manure last fall chop this down and throw it in a heap. With the pressure of other duties there is a likelihood of the compost heap being somewhat neglected in that they are allowed to become overgrown with rank weeds.

Chrysanthemums

During the hot weather, damping down will be necessary two or three times a day on the walks or paths. Go over the beds every day and water the dry places. Do not let the plants get overrun with fly before using effective means to keep them under control. It should always be remembered that these plants will never stand humid or stagnant atmosphere. So first of all see that they have plenty of fresh air, and a good syringing early every afternoon, which will allow the foliage time to dry out before night, but during dark weather keep the plants as dry as possible. Watch for other insects besides fly. There are quite a few that make the chrysanthemums a host plant, such as caterpillars, grasshoppers, red spider and thrips. Hand picking for the two former and plenty of syringing for the two latter.

Eucharis amazonica

Eucharis can be cultivated in beds, benches or pots. Pot-grown plants are best where only a few are to be grown. For compost use fibrous loam, lumpy dried cow manure, broken brick, char oal and coarse sand. It is

best to shake out the finer soil as what is needed is a porous soil through which water will pass readily. Established plants, started in midwinter and now coming out of 3 or 4-inch pots, are to be preferred. In summer the pots do well plunged in frames. They make much finer growth here than in the greenhouses. The plants must be shaded during summer and except in the coldest winter weather, a light shade should be used, as bright sun turns the leaves a pale color. Any grower who has not grown *Eucharis amazonica* should try a few of them.

Smilax

Vigorous plants coming out of either 3 or 4-inch pots make ideal stock. In selecting a place for a bed of smilax it should be always borne in mind that smilax will want at least 60 degrees of heat in the winter and at least ten feet for head room. Allow a foot between the rows and about nine inches between the plants in the rows. Keep a well ventilated and moist growing temperature. Syringe twice a day to prevent red spider and help the plant to sustain itself while developing its foliage. Don't allow the young trailing shoots to ramble and become twisted before you string them, but run the string up for the young plants soon after they are planted. Give water around the ball for some time yet, but when they begin to push their roots into the middle of the rows water all the bed.

Time to Think of Christmas

Give attention to all the plants most likely to be in general demand for this date. If you are short of any plants now is a good time to place your order through the medium of HORTICULTURE. Nothing like keeping the place well stocked up.

Next Week: Achimenes Asparagus Sprengeri; Housing Carnations; Lorraine Begonias Mignonette for Winter; Reminders.

Lilium Willmottae

Our cover illustration this week is that of a new Chinese lily, discovered, named and introduced to this country and to England by E. H. Wilson. Its name was given in honor of Miss Ellen Willmott, an enthusiastic English amateur.

This lily grows about 3 feet in height, with wiry stem clothed with narrow oblong leaves. The flowers are apricot yellow, spotted with brown, 3 inches or more across and strongly recurved. It is perfectly hardy and flowers outside in late June or early July. It was shown for the first time in this country at Horticultural Hall, Boston, on May 27, 1916, by William Anderson, gardener for Bayard Thayer of Lancaster, Mass., and there received the award of a silver medal by the Massachusetts Horticultural Society.

HORTICULTURE

VOL. XXIV

JULY 8, 1916

NO. 2

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 147 Summer Street, Boston, Mass.

Telephone, Oxford 292.
 WM. J. STEWART, Editor and Manager.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Lilium Willmottae.	
NOTES ON CULTURE OF FLORISTS' STOCK— Aerides—Bulb Compost—Chrysanthemums—Eucharis amazonica—Smilax—Time to Think of Christmas— John J. M. Farrell.	39
LILIUM WILLMOTTAE.	39
THE ANDROSACES—Hubert M. Canning.	41
AMERICAN SWEET PEA SOCIETY.	42
EXHIBITIONS—Boston Sweet Pea Exhibition—Rose and Strawberry Show at Boston.	42
Newport Summer Show—June Flower Show at Hartford.	43
CLUBS AND SOCIETIES—Lenox Horticultural Society —Illinois State Florists' Association—John Watson, portrait—The Convention City—Going to the Con- vention.	44
Society of American Florists.	45
Minnesota Horticultural Society.	46
OBITUARY—Walter P. Stokes, portrait—E. J. Harmon —Thomas Wilson—Sara Mills—Mrs. Wm. H. Hall— James Kidd, portrait.	45
SEED TRADE—Kirby B. White, portrait—One Week's Imports.	46
OF INTEREST TO RETAIL FLORISTS: New Flower Stores—New Corporations.	48
Flowers by Telegraph.	49
NEWS ITEMS FROM EVERYWHERE: Chicago, Washington.	50
Pittsburgh, New York, Boston.	51
Philadelphia, Cincinnati.	55
FLOWER MARKET REPORTS: Boston, Buffalo, Chicago, Cincinnati, New York, Phil- adelphia, Pittsburgh, St. Louis.	53
Washington.	55
MISCELLANEOUS: During Recess.	44
Business Troubles.	48
News Notes.	48
New Haven Park Notes.	46
Rose Garden Inspection.	46
A Well Grown Gloxinia, Illustrated.	51
Personal—Visitors' Register.	55
Disposition of Unclaimed Nursery Stock Importations.	60
Publications Received.	60
A Boon for Carnation Growers, Illustrated.	61
Greenhouses Building or Contemplated.	61
Patents Granted.	61

A reminiscence

As everybody who reads the newspapers knows, Mrs. Hetty Green "the world's richest woman," has passed away. Mrs. Green's reputation for closeness in money matters is well known. Her son Col. E. H. B. Green, who now inherits most of her fortune does not seem to have inherited this particular trait of character, however. After he had embarked in the florist business on a large scale in Dallas, Texas, Col. Green became interested in the S. A. F. and took out life membership. Attending the convention in Dayton, O., in 1906 he again paid for life membership. On being apprized by Secretary Stewart of the over payment, instead of accepting the refund of thirty dollars he promptly instructed that it be applied to life membership for his foreman. This is a bit of unwritten history.

"On tiptoe for a flight"

The most interesting horticultural event scheduled for the present month is the meeting and exhibition of the American Sweet Pea Society to be held at Bar

Harbor, Me., on July 15 and 16. The weather thus far has been propitious for the growth to perfection of the somewhat exacting flower which is to be thus honored and unless some untoward conditions should interpose the display is expected to be a most extraordinary one. It is not often that the triple attraction of a sensational exhibition, a coastwise ocean trip and a visit to a most picturesque fashionable summer resort in the height of the season is presented. This opportunity coming in a year when there happens to be no other convention excursion within the means of many of the craft in the eastern part of the country will, no doubt, be very generally welcomed and a record attendance on this occasion will not be surprising. All those who do go will be well repaid.

A commendable custom

The custom of early closing of offices and stores during the dull midsummer season has come into favor very slowly among the florist people, wholesale and retail. The necessity for prompt handling and disposal of the goods he carries has so possessed the mind of the florist that it has become a sort of second nature to him to feel he must be at "beck and call" for service at any and all unseasonable hours, early and late, Sundays and holidays included. But gradually he is coming to realize that one principal effect of his self-sacrifice is to encourage in his customers the bad habit of buying "from hand to mouth" and expecting to always find whatever they may call for kept in stock to accommodate them at a moment's notice. At best, all departments of the flower producing and flower selling industries are onerous in their demands upon the toilers, from the boss down to the errand boy, and it is only fair that the long and irregular hours, and the absolute forfeiture of all the holidays which others are privileged to enjoy should be compensated for, in part at least, by a liberal shortening of the hours of duty during the season when this can be done without grievous loss or embarrassment to anybody. The occasional inconvenience to an improvident customer who can get his orders in earlier when he finds he must, should not count.

As between so- cieties

The newly born peony society of the Northwest has our best wishes for a long career of usefulness. HORTICULTURE cannot, however, contemplate with unqualified approval any action or the advancing of any policy the purpose or ultimate effect of which is the disintegration or weakening of any worthy existing national or other body. It does believe, however, in the formation of local organizations for special work in any and all places where sufficient enthusiasm can be kindled to carry them along successfully. A national association backed by a well-distributed number of such organization is the ideal for the performing of certain functions which can best be handled by such a central organization. This prompts us to ask why this proposed sectional society should not organize under the wing of the existing American Peony Society. Such an affiliation need not unfavorably affect the usefulness of the new organization but, rather, add strength to both bodies and thus tend to facilitate the progress of the peony towards a larger place in American gardens and in commercial floriculture, which, we assume, is the purpose of both. Nobody will deny that the American Peony Society has done much valuable work in past years, particularly in the clarifying of nomenclature and a certain gratitude and loyalty is accordingly due. If the national society is not now rising to the full measure of its responsibilities as such, the good old remedy of reform from within, in preference to an assault from without, is still available.

The Androsaces

Among the more difficult of the rock-plants, or alpine—are these little members of the Primula family, coming from the highest parts of the Alps, and living there in such intense cold and under such extreme conditions that any other plant life, even that equally well provided, would perish.

Typical endemic species of this harsh climate, they represent a class of plants that may well be called "cushion plants," forming, as they do, a moss-like, compact growth in adaptation to the combined cold and dryness of their habitat. They are the most alpine of alpine plants. In a number of cases of alpinism we find representatives in the lower hill pastures or sunny meadows, but not so with the Androsaces. Gentians and Primulas will be found in the lower land, but not the Androsaces. As a natural result they are the dwarfest of the class, some of the smallest Primulas being giants in size compared with them.

The Androsaces resemble the Primula in flower, agreeing in most characteristics, but having the tube of the corolla narrower at the mouth. On account of the short summer in their habitat their flowers open as soon as the snow is melted. They can be grown in a properly formed rock garden in pure air, with good drainage, but are sure to die quickly in a smoky atmosphere, and stagnant water is fatal. Their small, downy evergreen leaves (some have smooth leaves) will retain much more dust than many of the other smoother and larger-leaved evergreen alpinism. The Androsaces will thrive in small fissures between firm rocks or stones, firmly packed in a sandy peat or a very sandy or gritty loam, not less than fifteen inches deep. They should be placed so that no moisture will get at them in winter and so that in summer they may enjoy a cool soil in a moist atmosphere with plenty of sun. It is all the better if a few pieces of sandstone can be strewn over the surface of the bed so that once the ground beneath is well moistened, they will not suffer from any ordinary drought. They are not deeprooted plants, provided they can get a supply of water near the surface, and always prefer to send their roots along the face of some stone at a small depth, rather than to sink vertically to any considerable distance. Shade with them is entirely out of the question.

If such a condition as that named above cannot be given, some chances of success may be gotten from a level bed of sandy peat, provided it is well drained and the plants protected from moisture in winter by placing a piece of glass over them. Here great care must be taken to keep out the stronger growing plants, which such a soil and condition favors, for they will soon shade and kill the smaller plants.

The following is a short description of some of the best known varieties.

A. carnea: One of the prettiest and most distinct. Very early. Known by its small pointed leaves, not gathered in rosettes but regularly clothing the somewhat elongated stem like a small twig of Juniper. Flowers a lively pink or rose with yellow eye. Easily propagated from seed sown in pans of sandy soil as soon as gathered; also by division.

A. carnea var. eximea: Larger than the last, hardier and more robust. Flowers exactly like the above except one inch larger and of more substance. Grows very rapidly in tufts three inches high with leaves about one inch long and one-eighth inch wide at the base. A limestone soil is fatal. Increased by division.

A. Brigantica: In every way like the last named variety except flowers white. The same position and soil suits it.

A. Chamaejasme (Rock Jasmine): This species does not form the close cushion-like growths like some of the others but makes larger rosettes of fringed leaves. The flowers are borne on stout stems, rarely more than an inch in height but varying from that to five inches in some cases,

according to the vigor of the plants and their position. Flowers freely. This plant is one of the most worthy of culture of all alpinism and one of the easiest to grow on open rock work in a deep and well drained rich light loam in a sunny position, the surface of the soil being almost completely covered with small pieces of sandstone to prevent evaporation and also to preserve the plant from injury. It should get plenty of water during the summer months and be exposed to the full sun. It dislikes lime and succeeds best in river sand and peat.

A. ciliata (Fringed Androsace): Practically identical with the above but with fewer flower-stems and twice as long as the leaves. This plant is, by some, considered a variety of the above.

A. cylindrica: This is another variety with stems rising to one-half inch in height, with persistent leaves which form columns on the stems. Flowers pure white in spring. Should be treated like *A. pubescens*.

A. Helvetica (Swiss Androsace): This species forms dense cushions about one-half inch in height with small fringed leaves tightly packed in small rosettes. Each rosette rests on the top of a little column of old and dead, but hidden, and half-dried persistent leaves. Flowers white with yellowish eye, one from each rosette, and about twice as large as the rosette from which it rises. This plant requires considerable care in cultivation, perfect exposure to the sun well-drained, but never dry position.

A. imbricata (syn. *A. argentea*): Differs from the others in having rosettes of a silvery color. Its pretty white flowers are without stalks and rest so thickly on the rosettes as sometimes to overlap each other. Flowers in summer.

A. pubescens: Has a rather large solitary white flower with pure yellow eye rising just above the closely packed leaves, the surface of which is covered with stalked and star-like hairs. The unopened buds look like small pearls set in a tiny five-cleft cup and are on stems barely rising above the dense cushion formed by the plant. It flowers in July and August in its natural home, but with us will blossom in spring or early summer.

A. sarmentosa: This is a dwarf tufted species from the Himalayas, found at elevations of 11,000 to 12,000 feet. Flowers borne in trusses of from ten to twenty blossoms on an erect Primula-like scape and at first sight resembling the inflorescence of a bright pink, white-eyed Verbena. It is easily propagated from runners which plentifully overhang the side of a pot. This species is difficult to keep over winter unless protected by a pane of glass. Fine sandstone should be put under the rosettes and all over the surface of the soil to keep all parts except the root from contact with the soil. A dry calcareous soil is best.

These and many others may be found to be valuable additions to our rock gardens. In a hot rock garden it will be best to give these plants a northwest exposure.

All delicate alpinism need to be dressed with leafmold when they start into growth in the spring, and many will shrivel up and die for want of it in the dry winds of early spring.

It is interesting to note that in the region from which the Androsaces come in the Alps—namely, the region just below the snow line and above the tree line, that there are to be found 1020 different species of which some 700 are strictly native to this zone; the others having representatives in the hill pastures and meadows below the tree line. It is noteworthy that in this zone there is a marked predominance of species that affect moist localities which are also found in the north. Some species have been traced back to the Steppes of Central Asia from whence they followed the glaciers north, and were, in the second glacial period, forced south again, landing eventually on the highest summits of the Alps, where, finding conditions suitable to their welfare they have staid ever since. These journeyings of plants, while they consume but few words, occupied thousands of years, and it is interesting to read of the wanderings of many species now found in different quarters of the globe.

Hubert H. Canning.

Jamaica Plain, Mass.

AMERICAN SWEET PEA SOCIETY

The eighth annual exhibition and convention of the American Sweet Pea Society will be held at Bar Harbor, Me., under the auspices of the Bar Harbor Horticultural Society on Saturday and Sunday, July 15th and 16th, 1916.

PROGRAM.

Saturday, July 15, 1916, 3 P. M.

Addresses of Welcome by the President of the Bar Harbor Horticultural Society.

President Gray's Address.

Secretary's Report.

Prof. A. C. Beal's Report on Our Trial Grounds at Cornell University.

Treasurer's Report.

Nomination of Officers for 1916-1917.

Invitations for the next meeting place.

Lecture by David Burpee, "The Future of the Sweet Pea, and the possibilities of securing a pure yellow variety."

Election of Officers.

Addresses and Discussions.

Question Box.

Sunday, July 16, 1916, 10 A. M.

Unfinished Business (if any).

List of Prizes, Etc.

Entries must be made on the forms supplied by the Secretary, Harry A. Bunyard, 40 W. 28th street, New York City, and mailed to reach him in New York not later than Wednesday, July 12th. After this date address communications care of A. E. Thatcher, Bar Harbor, Me.

All exhibits must be staged by 12 o'clock on Saturday, July 15th.

Exhibits sent by express should be addressed as follows:

For Exhibition.

Express prepaid. Perishable.

Must be Delivered Immediately.

A. E. Thatcher, Bar Harbor, Me.,

Manager.

Sweet Pea Exhibition.

Section A—Private Gardeners.

Class A. 1. Arthur T. Boddington Co., Inc., Challenge Silver Cup, value \$50. For a collection 25 varieties, not less than 20 stems to a vase, to be shown with sweet pea foliage only. To be won twice by the same exhibitor. Also cash prizes of \$25, \$15 and \$10.

A. 2. Weeber & Don Prize. For 100 sprays mixed, arranged for effect, \$5.00.

A. 3. Thorburn Prize. Silver Cup, for 12 vases, 12 Spencer varieties, 20 blooms to a vase.

A. 4. Breck Prizes. For 3 vases, 25 to a vase, Spencer varieties: 1st, \$7.50; 2d, \$2.50.

A. 5. Dreer Prizes. Vase of Constance Hinton: 1st, \$5.00; 2d, \$2.50.

A. 6. Vase of Mrs. P. Hallen: 1st, \$5.00; 2d, \$2.50.

A. 7. Hitchings' Prize. Silver Cup, for 8 vases, 20 stems to a vase, 8 Spencer varieties named.

A. 8. Carters Tested Seeds Prizes. Three tubs of sweet peas, any color, in bloom: 1st, \$10.00; 2d, \$5.00.

A. 9. National Sweet Pea Society's (Great Britain) Prizes. Display for effect: 1st, Silver-Gilt Medal; 2d, medal.

A. 10. Farquhar & Co. Prizes. For 6 varieties, 1 vase of 20 sprays to each variety: 1st, \$12.00; 2d, \$8.00.

A. 11. National Association of Gardeners' Prize. For the most meritorious exhibit by a member of the association: Silver Medal.

Section B—Private Gardeners and Amateurs.

Class B. 1. Burpee Prizes. 12 vases, 12 varieties: 1st, Silver Cup, value \$25.00, and \$10.00 cash; 2d, \$10.00; 3d, \$5.00.

B. 2. Stumpp & Walter Prizes. 6 vases, 6 Spencer varieties: 1st, \$10.00; 2d, \$5.00.

B. 3. Michell Silver Medal for 6 vases, 6

Spencer varieties.

B. 4. Michell Bronze Medal. For 25 blooms illuminator.

B. 5. Watkins & Simpson Prize. 6 vases of Spencer, 6 varieties: 1st, \$10.00.

B. 6. Bunyard Prize. For the most novel arrangement of sweet peas: 1st, \$10.00; 2d, \$7.50; 3d, \$5.00.

B. 7. Coats Prizes. Decoration for table of eight covers: 1st, a Silver Cup and \$25.00; 2d, \$15.00; 3d, \$10.00. Exhibitors will be allowed to use sweet pea foliage, asparagus, smilax, gypsophila, or all; ribbons also allowed.

B. 8. Kennedy Prizes. 12 vases, 12 varieties: 1st, \$15.00; 2d, \$10.00.

B. 9. Malvern Greenhouses Prizes. 25 sprays of Hercules: 1st, \$10.00; 2d, \$7.50; 3d, \$5.00.

B. 10. (For Ladies Only) Mt. Desert Nurseries. Table decoration: 1st, \$10.00; 2d, \$7.50; 3d, \$5.00.

B. 11. Sutton Silver Cup, value \$25.00. For best table of sweet peas, covering 12 square feet.

Section C is for amateurs and children.

Section C—Is for Amateurs and Children.

Section D—Open and Miscellaneous.

Class D. 1. Morse Silver Cup, value \$25.00. For the finest and most meritorious display (open to the seed trade only).

D. 2. Rice Seed Co. Prizes. For 1916 Novelty, 20 sprays, 1 variety: 1st, \$5.00; 2d, \$3.00; 3d, \$2.00.

D. 3. Lord & Burnham Prize. (Florist growers only). A gold watch for the best display, arrangement to count.

D. 4. American Sweet Pea Society's Silver Medal will be awarded for the best collection of Novelties which did not appear before 1915.

D. 5. American Sweet Pea Society's Silver Medal for collection of Novelties appearing in 1916 catalogues only. Bronze Medal will be awarded for the second best collection.

D. 6. For sweet peas not yet in commerce the American Sweet Pea Society's medals and certificates will be awarded in this class.

D. 7. S. A. F. & O. H. Silver and Bronze medals will also be awarded in this class.

Section E.

(Classes 1 to 21 Open to All.)

Class E. 1. Mrs. Alfred Anson. For tub of any white, cream or cream-yellow variety: 1st, \$5.00; 2d, \$6.00; 3d, \$4.00.

E. 2. Mrs. A. Howard Hinkle. For tub of any scarlet, crimson, rose or carmine variety: 1st, \$8.00; 2d, \$6.00; 3d, \$4.00.

E. 3. Mrs. Andrew Carnegie. For tub of any lavender, mauve, purple or blue variety: 1st, \$8.00; 2d, \$6.00; 3d, \$4.00.

E. 4. Thomas J. Grey & Co. For tub of any pink, orange or salmon variety: 1st, \$8.00; 2d, \$6.00; 3d, \$4.00.

E. 5. Town of Eden. For display arranged against a wall, on a table 3x10 ft.: 1st, Silver Cup; 2d, \$15.00; 3d, \$10.00.

Spencer Varieties.

1st, \$5.00; 2d, \$3.00; 3d, \$2.00, are offered in each of the following classes, 20 sprays in each:

E. 6. Fottler, Fiske, Rawson Co. 20 sprays, any white.

E. 7. Northeast Harbor Nurseries, any crimson or scarlet.

E. 8. New York Florists' Club, any rose or carmine.

E. 9. New York Florists' Club, any light pink.

E. 10. New York Florists' Club and Gardeners' and Florists' Club of Boston, any deep pink.

E. 11. Gardeners' and Florists' Club of Boston, any blue.

E. 12. Gardeners' and Florists' Club of Boston, any mauve.

E. 13 to E. 21, cream or orange-yellow; salmon or orange; lavender; maroon or purple; picotee-edged; striped or flaked red or rose; striped or flaked blue or purple; bicolor other than picotee edged; any other color.

Special Prize by Mt. Desert Nurseries for best single vase exhibited in classes E. 6 to E. 21, \$10.00.

The Garden Magazine Achievement Medal will be awarded to the exhibitor taking the most first prizes in E. 6 to E. 21.

Schedule in full with rules, etc., may be obtained from Harry A. Bunyard, Secretary, 40 West 28th St., New York City.

Exhibition Committee: Geo. W. Kerr, chairman; Wm. H. Duckham, J. Harrison Dick, A. N. Kirby, W. A. Sperling.

Judges for the Exhibition: Prof. A. C. Beal, chairman, Ithaca, N. Y.; William H. Duckham, Madison, N. J.; W. N. Craig, Brookline, Mass.; Chas. H. Totty, Madison, N. J.; Julius Chevalley, Blue Point, L. I.; Geo. W. Kerr, Doylestown, Pa.; J. Harrison Dick, New York; Wm. Kleinheinz, Ogontz, Pa.; Arthur Herrington, Madison, N. J.; Geo. Wyness, Prides Crossing Mass.; George Critchley, Lawrence, L. I.; John Everitt, Glen Cove, L. I.; A. Bauer, Deal Beach, N. J.; William Sim, Cliftondale, Mass.; Frank H. Traendly, New York City; Geo. T. Schuneman, Rockville Center, L. I.; Geo. Thompson, Lenox, Mass.; Thomas Murray, Tuxedo, N. Y.; Fred Heeremans, Lenox, Mass.; Leonard Barron, Garden City, L. I.; J. Tansy, Tuxedo, N. Y.; A. N. Kinney, New York City; E. Barth, Tuxedo, N. Y.; D. McGregor, Tuxedo, N. Y.; Howard Nicols, Yonkers, N. Y.; Arthur Golding, Tarrytown, N. Y.

A GREAT EXHIBITION AND SPLENDID OUTING COMBINED

The prospect for the Sweet Pea Exhibition at Bar Harbor in connection with our annual convention July 15th and 16th shows great promise. There will be many exhibits from Newport, Lenox and other eastern points. Bar Harbor itself is an ideal place for growing sweet peas. Schedule is now on hand and can be had on application to the secretary. About one thousand have already been sent out to possible exhibitors. The prize list is very large and generous and keen competition is expected.

Visitors, exhibitors and judges going from New York will leave on the Metropolitan Line to Boston at 5 P. M. Thursday, July 13th, reaching Boston the next morning. They will leave in the afternoon with the Boston contingent on the Eastern Steamship Line to Bar Harbor, Friday, P. M., July 14th. The fare between Boston and Bar Harbor is \$10.50 a round trip, staterooms \$1.50 and \$2.00. Fare, New York to Boston is \$8.00 return, staterooms \$1.00 and \$2.00, according to location. Through tickets to Bar Harbor can be procured at either point. Early reservations are requested as traveling at this season of the year is very heavy.

For further particulars, write to the secretary,

HARRY A. BUNYARD,
40 West 28th St., New York, N. Y.

BOSTON SWEET PEA EXHIBITION.

The annual exhibition of sweet peas by the Massachusetts Horticultural Society will be held at Horticultural Hall, Saturday and Sunday, July 8 and 9. In addition to the usual classes open to all growers there are eighteen prizes offered for exhibits by amateurs. There will be also exhibits of other seasonable flowers both cultivated and wild and the displays of fruits are now becoming prominent. The exhibition is free and will be open Saturday from 12 to 6 and Sunday from 1 to 6 o'clock.

WM. P. RICH, Sec'y.

THE EXHIBITIONS

ROSE AND STRAWBERRY SHOW AT BOSTON.

The annual rose and strawberry exhibition of the Massachusetts Horticultural Society held at Horticultural Hall on Saturday and Sunday, July 1 and 2, was a spectacle of rare effectiveness and brilliancy. Not only were the roses and strawberries shown in fine array but there were wide expanses of glowing collections of summer bloom, campanulas in many species, English irises, sweet williams, foxgloves, peonies, lychnis, delphiniums. The largest group, and one of the best arranged ever shown by the exhibitor, was by R. & J. Farquhar & Co. It was an imposing symphony in blue and white, in which myriads of campanulas and larkspurs played the leading part. Blue Hills Nurseries and Eastern Nurseries were also represented by large collections of hardy perennial flowers and superb peonies were staged in quantity by A. H. Fewkes and T. C. Thurlow's Sons.

Among the roses, Silver Moon, shown in enormous trusses of flowers and buds, with foliage simply wonderful, by A. J. Fish, of New Bedford, was the crowning attraction. Dealers in this variety may expect plenty of calls for it from this part of the country now.

For the first time here the strawberries were shown on flat platters, arranged with their own foliage, instead of in baskets and it was generally commented upon as a decided improvement, permitting inspection of each individual berry. The premier prize for collection of ten plates of 48 berries each was won by Wilfrid Wheeler. Other prize winners were G. V. Fletcher, Louis Graton, W. C. Cooper, W. C. Winter and E. M. Brewer.

The list of plant and flower awards follows:

Hardy roses collection: 1st, Thomas N. Cook; 2d, W. C. Winter. Best three blooms any white H. P.: 1st, David Tyndall; 2d, Robert Seaver. Three pink H. P.: 1st, David Tyndall; 2d, E. K. Butler. Three red H. P.: 1st and 2d, David Tyndall. Basket of H. P. roses, artistically arranged: 1st and 2d, Robert Seaver. Twenty-four H. P., one of each: Thomas N. Cook. Twelve do.: 1st, A. W. Preston; 2d, John B. Wills. Six do.: 1st, Robert Seaver; 2d, A. W. Preston. Hybrid Tea roses, Twelve H. T., one bloom each: 1st, A. W. Preston; 2d, E. K. Butler. Three H. T., variety introduced since 1913: A. W. Preston with Crissie McKellar. Six any white H. T.: 1st, Thomas N. Cook, Killarney; 2d, G. E. Barnard, Kaiserin Augusta, Victoria. Six any yellow: 1st, A. W. Preston, Mme. Melanie Soupert; 2d, G. E. Barnard, Mrs. A. Ward. Six any pink: 1st, A. W. Preston, Duke of Westminster; 2d, A. W. Preston, Mme. Euler. Six any red: 1st, A. W. Preston, George Dickson; 2d, Thomas N. Cook, George Dickson. Basket, artistically arranged: Mrs. Albert Geiger, Jr. Sweet williams: 1st, Mrs. J. L. Gardner; 2d, Mrs. C. G. Weld. Hardy herbaceous flowers (twenty-five vases): Weld Garden. Display of hardy herbaceous flowers: 1st, Blue Hill Nurseries. Campanula Medium: 1st, Weld Garden; 2d, Mrs. C. G. Weld.

Silver Medal: A. J. Fish, collection of climbing hardy roses.

First Class Certificate of Merit: Weld Garden, Coelogyne Mooreana.

Honorable Mention: Thomas N. Cook, seedling rambler rose No. 1; H. F. Chase, Andover, seedling peony Miriam, semi-double, rich pink with bright yellow stamens.

Gratuities: Thomas N. Cook, collection

COMING EXHIBITIONS.

July 14-15, Bar Harbor, Me.—Annual Show of American Sweet Pea Society.

July 20, Worcester, Mass.—Sweet Pea Exhibition, Worcester Horticultural Society.

August 24-25.—Lewiston, (Me.) Annual Flower Show, Gardeners' Union, Lewiston City Hall.

July 26-27, Southampton, N. Y.—Tenth Annual Flower Show, Southampton Horticultural Society.

August 3, Oyster Bay, L. I., N. Y.—Dahlia Show, Oyster Bay Horticultural Society.

August 11-12-13, Boston.—American Gladiolus Exhibition, Horticultural Hall.

August 24, Worcester, Mass. Gladiolus Exhibition.

Sept. 2-9, Cleveland, Ohio.—Industrial Exhibition and Fair.

Syracuse, N. Y., Sept. 11-16.—New York State Fair.

Sept. 12-13, Providence, R. I.—Rhode Island Horticultural Society, Narragansett Hotel.

Sept. 11-16, Syracuse, N. Y.—Seventy-Sixth Annual New York State Fair.

of roses; Mrs. C. G. Weld, display of roses; Miss Cornelia Warren, display of roses; Eastern Nurseries, collection of climbing roses; J. T. Butterworth, hybrid perpetual roses; T. C. Thurlow's Sons Co., peonies; A. H. Fewkes, peonies; Weld Garden, digitalis; Miss Cornelia Warren, Campanula persicifolia and gloxinias; F. W. Fletcher, Delphinium Clevedon Beauty; E. B. Dane, orchid blooms; J. T. Butterworth, orchid plants; Miss Cornelia Warren, oncidiums; R. & J. Farquhar & Co., group of hardy plants and flowers; Eastern Nurseries, herbaceous flowers; Mrs. E. S. Martin, cut flowers.

NEWPORT SUMMER SHOW.

The annual June flower show of the Newport Garden Association and the Newport Horticultural Society was held on June 28 and 29 at the Association grounds on Gibbs avenue with 83 prize classes by the former organization and 50 by the latter. The show was an open air exhibit, with the cut flowers displayed in three large tents. One of the important contests was for the best novelty sweet pea for 1916, for which Mrs. W. B. Leeds took 1st prize. Mrs. French Vanderbilt 2nd and the Reef Gardens 3rd. In the only exhibit for which a medal was offered, a group of plants, the award went to Mrs. Hugh D. Auchincloss. Money and cups were the other prizes.

Trade displays were conspicuously absent. One of the most effective exhibits, not in competition, was that of Kempenaar & Christensen, local gardeners, showing standard baby rambler roses set in an artistic grouping of begonias, spireas, etc. On the grounds between the tents was a group of dwarf Japanese maples, firs and shrubs exhibited by the Wilson Nurseries.

The judges from the Garden Association were Richard Gardner, William MacKay and James Robertson and from the Horticultural Society Arthur T. Bunyard, Joseph Dixon and Alan R. Wheeler. The show was free and a throng of visitors came. The

campanulas, foxgloves, roses, etc., in the plant classes were generally shown in outdoor beds and it is proposed that these shall be left intact for the rest of the season as a public attraction.

Following is a condensed list of prizes and gratuities awarded.

Victor May, gard. at "The Reefs," Roses, Adiantum Farleyense, Gerbera Jamesoni, hardy perennials, grapes, strawberries, vegetables, melons; fifteen prizes. Andrew Dorward, gard. to Mrs. T. J. Emery, new roses, sweet peas, hardy perennials, lilies, sweet williams, grapes; twelve prizes. Daniel Hay, gard. to Mrs. French Vanderbilt, orchids, canterbury bells, sweet williams, bulbous plants, salpiglossis, foxgloves, iris, new sweet peas, strawberries, vegetables, ivy geranium and table center piece; twelve prizes. James Bond, gard. to Mrs. H. Mortimer Brooks, annuals, sweet williams, stocks, salpiglossis, foxgloves, irises, palms and foliage plants; ten prizes. John Mahan, gard. to Mrs. H. G. Auchincloss, canterbury bells, sweet william, antirrhinum, foxgloves, hardy perennials, nectarines, strawberries, vegetables, water lilies; ten prizes. Andrew Ramsay, gard. to Mrs. W. Watts Sherman, violas, pansies, petunias, roses, table center piece; seven prizes. Colin Robertson, gard. to R. W. Goelet, roses and vegetables; seven prizes. James Boyd, gard. to Vincent Astor, calceolarias, foliage plants and ferns; six prizes. James Watt, gard. to Mrs. W. G. Weld, roses, sweet peas, tuberous begonias, gloxinias; four prizes. H. S. Meikle, gard. to Rev. Roderick Terry, foliage plants, fuchsias; four prizes. James Robertson, gard. to Mrs. T. O. Richardson, palms, ferns, aspidistra; four prizes. D. F. Roy, gard. to H. E. Converse, Marion, Mass., roses, strawberries; four prizes. C. M. Brigholt, gard. to Miss Fanny Foster, roses; four prizes. William Gray, gard. to Mrs. W. B. Leeds, roses, sweet peas, center piece; four prizes. Sven Johnson, gard. to Miss Edith Wetmore, rose basket, tub sweet peas, canterbury bells; three prizes. J. B. Urquhart, gard. to Gov. Beeckman, Adiantum Farleyense, roses; three prizes. Arthur Leary, gard. to John Nicholas Brown, roses and basket of flowers; two prizes. Mrs. A. J. Fish, roses. Hugh Williamson, gard. to Wm. Waldorf Astor, roses. John Baumgartner, gard. to D. B. Fearing, strawberries. John Mackay, gard. to Henry A. C. Taylor, calceolarias. William Allen, gard. to Mrs. Alex. H. Rice, lilies. Jas. Hooper, gard. to Mrs. T. K. Gibbs, roses. Jas. Watson, gard. to Wm. Grosvenor, peonies. John H. Greatorex, gard. to Com. A. C. James, roses and orchids.

JUNE FLOWER SHOW AT HARTFORD, CONN.

The second June Flower Show of the Connecticut Horticultural Society was held in Hartford on June 27th and 28th.

In the centre of the hall was an unusually fine oval bed arranged by Alex. Cumming, Jr., superintendent of the rose department of Cromwell Gardens. J. F. Huss decorated the stage and carried off the silver cup for the best general collection. Warren S. Mason out of nineteen classes of roses successfully competed in sixteen. He also won many prizes in the hardy perennials. The Conn. Hospital for the Insane, Middletown, gard. Edward Eggert, was also a large prize winner. Prof. M. W. Jacobus, gard. Alfred Cebelius, with peonies, N. Nelson, gardener at the Hartford Retreat, with sweet peas, J. Vidbourne with peonies, and W. W. Hunt & Co., with perennials were also prominent in the list of winners.

CLUBS AND SOCIETIES

LENOX HORTICULTURAL SOCIETY

The annual summer exhibition of this society was held in Lenox, Mass., Town Hall on June 28 and 29. It attracted many visitors, including members of the Garden Club of America which was holding a convention in Lenox at the same time.

The arrangement committee, Harry Heeremans, Lewis Barnett and Gordon McMillan, assisted by members of the society, showed marked taste in locating and arranging the exhibits. The judges, Walter Jack of Natick, Thomas Reynolds of Princeton, N. J., and Robert Scott of Pittsfield, had a difficult task in judging the exhibits, but the result of their work gave general satisfaction. The display was a splendid one and all classes were well filled despite the exceedingly poor season. Of outdoor blooms, peonies and perennials were prominent. The sweet peas, while not shown in the quantities of previous years were of unusually fine quality. Arthur N. Cooley of Pittsfield won the silver loving cup, given by Knight & Struck for the best collection of 10 varieties of sweet peas, 25 sprays to each. He also won the silver dish presented by Joseph Breck & Sons of Boston for 12 vases of sweet peas. A certificate of merit and a silver medal were also given Mr. Cooley by the Lenox Horticultural Society for his wonderful group of rare orchids entered for display only.

Most of the famous estates in Lenox, Dalton, Pittsfield, Lee, Stockbridge and other neighboring towns were represented by exhibits, some of them by very extensive displays. Among the leading winners were Giraud Foster, Miss Kneeland, W. E. Griswold, Mrs. J. E. Parsons, W. M. Salisbury, A. R. Shattuck, C. de Heredia, Joseph H. Choate, F. E. Lewis of Ridgefield, Conn., W. E. Hoyt, Mrs. W. D. Sloane, H. M. Sage, of Albany, N. Y., Charles Lanier. The arrangement of palms ferns and pink and white clarkia on the stage, from Elm Court greenhouses, was admirable.

ILLINOIS STATE FLORISTS' ASSOCIATION.

At a meeting held at Bloomington, Illinois, of the Executive Committee of the Illinois State Florists' Association, on Tuesday, June 27th, it was decided not to put on a competitive flower show at the State meeting there this fall, so the getting up of a premium list was abandoned.

All efforts will be made by the committee to put on one of the largest non-competitive fall exhibitions ever held. The secretary was instructed to write all those members who answered the call for cash subscriptions, towards getting up a premium list and thank them for their liberal response. All, however, will be asked to contribute flowers or plants towards making this a banner show. The only cash awards will be those given to the school children of Bloomington for the best chrysanthemum plants grown by them. This amateur feature will be entirely in charge of A. Washburn & Sons, of Bloomington, who donated several

thousand plants for the children to grow, and have offered \$50.00 in prizes to this cause.

The show will be held in the large Coliseum at Bloomington on Nov. 9th, 10th, and 11th, and the commercial part will be in charge of a committee consisting of J. F. Ammann, Chas. Loveridge and Geo. W. Jacobs. The usual certificate of merit will be awarded to anything new or meritorious. No entries need be made for this.

Those attending the meeting were President Chas. W. Johnson, Charles Loveridge, I. L. Pillsbury, E. W. Guy, Geo. W. Jacobs, and J. F. Ammann from out of town, Frank and George Washburn and John R. Gee from Bloomington, Ill.

J. F. AMMANN, Sec'y.

PRESIDENT ELECT AMERICAN ASSOCIATION OF NURSERYMEN.



JOHN WATSON.

In electing John Watson as its chief officer for the coming year the American Association of Nurserymen has secured a man of high executive ability whose incumbency means a year of progressive activity and usefulness. Mr. Watson has been a zealous worker in the organization for many years. He recently withdrew from active participation in the business of Jackson & Perkins Co. with which he had been for ten years connected and started in the nursery business on his own account in Newark, N. Y., but still retaining his financial interest in the old company. He was elected vice-president of the American Association of Nurserymen at its convention in 1915, is an officer in the Nurserymen's Protective Association and also the Wholesale Ornamental Growers, and holds memberships in the S. A. F., the Rochester Florists' Club and the Western Association of Nurserymen.

Personally Mr. Watson has all the characteristics which make a man a favorite among his fellows and wherever he is known he has staunch friends a-plenty.

THE CONVENTION CITY.

Houston Has 17 Railroads and is from 400 to 1,000 Miles from the Border.

We have had a number of inquiries regarding the border situation of Texas. In the first place, I want to state that Houston is from 400 to 1,000 miles from the border. We hear less about the border troubles here than they do in the North and East, so dismiss from your minds that you are to be anywhere near the troubled territory. While the railroads are very busy at this time transporting troops, passenger traffic is not hampered, and by convention time all troops will be on the border. Houston with her 17 railroads is equal to any emergency. The delegates in coming to Houston will not be affected by the movement of troops.

We are very much elated over the prospect of a very large attendance. The South is going to turn out in full force. President MacRorie advises me that he will have two Pullman cars full from California. Secretary Young says we will have a good delegation from the East. I understand the Central states will send a large delegation.

With our Convention Garden a success and our trade exhibits reservations pouring in, prospects are bright for a large attendance. Watch for the entertainment program that we have lined up for you. You have every assurance of a grand old time in Houston this summer.

R. C. KERR.

GOING TO THE CONVENTION.

E. C. Pruner, known all through the West, has just returned to Chicago from a trip in the interests of the florists' supply houses. If anyone lacks enthusiasm for the Houston convention, a half hour's talk with Mr. Pruner would make him ready to pack his grip. It seems the nights are always cool and the days—well, we all growled over the cold summer last year. Mr. Pruner advises buying a ticket to St. Louis, and after a stop there, using one of the several lines according to preference the rest of the way. The Santa Fe passes through Oklahoma where the Osage Mts. may be seen. Another line goes through the Ozark Mts. and the one who wants sight seeing as well as convention should stop over on the way. At Houston Jim Pruner says they are making great plans for entertaining their guests and that the Southern city is no longer inland, for a deep waterway allows the ocean boats to come up to the city.

DURING RECESS.

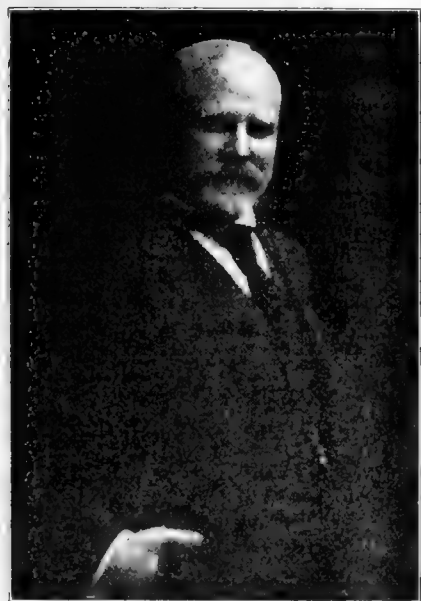
Holton & Hunkel Employees.

Holton & Hunkel gave an outing at Brown Deer, Wis., on Sunday, June 25, to their employees and families. There was a big crowd and plenty of entertainment and hospitality, altogether a memorable day for enjoyment. There were a number of games and appropriate prizes were awarded.

Obituary

Walter P. Stokes

The sad news has been received of the death of Walter P. Stokes on July 1st at Moosehead Lake, Maine, where he had gone on a vacation about three weeks ago. Mr. Stokes was well known in the horticultural world having been a partner in the firm of Johnson & Stokes, established in Philadelphia about 1886. They conducted a general seed and implement business and achieved great success and distinction, their business growing to large proportions and their trade extending to every state in the union and even beyond. About ten years ago some family differences caused a dissolution of the partnership since



WALTER P. STOKES.

which Mr. Stokes conducted a separate establishment at 217 Market street with greenhouses and nurseries at Moorestown, N. J., which still continue active in all departments under corporate management.

Mr. Stokes was 65 years of age and was a native of Rahway, N. J. He was educated at the Friends Academy at West Town, Pa., and started his business career in Philadelphia with the wholesale grocery firm of Caleb Wood on South 2nd street. This firm sold timothy, clover and other seeds to its country customers and from 1874 to 1886 they bought their supplies of seeds from C. B. Rogers, 133 Market street. That firm went out of existence about 1886 but that was where Herbert Johnson was employed and that was where Mr. Stokes got acquainted with him and the seed partnership resulted.

Public recognition of the high esteem in which Mr. Stokes was held

came in many ways. He was an ex-president of the American Seed Trade Association and for fifteen years was secretary and treasurer of the Wabash Mills Company, Manayunk. He was an active member of the Society of Friends and prominent in many charitable institutions.

Philadelphia has long been known as one of the big seed centers of the country. The grim reaper has certainly been cutting a wide swath recently. During the last few years we have lost a Buist, a Maule, a Burpee, and others of less renown, and now a Stokes! But we can say of all of them that, although cut off from us in the heyday of their powers they all did splendid work for the advancement of their fellowmen in their chosen profession and all have passed to the great beyond with unblemished reputations and worthy of our esteem and admiration as long as memory lasts. Not the least of them was the subject of this short sketch, Walter P. Stokes. The writer knew him personally and intimately for twenty-eight years, and he never knew a finer gentleman in all his incomings or outgoings.

GEORGE C. WATSON.

E. J. Harmon.

Edward J. Harmon, who has conducted a successful florist business on Congress street, Portland, Me., for many years, died suddenly at his home, 428 St. John street, on Tuesday evening, July 4th. Heart failure was assigned as the direct cause of his death, as he had appeared in comparatively good health during the day, having witnessed the parade in the morning and in company with Mrs. Harmon attended the theater later in the day. They returned home about 8, and as they entered the house Mrs. Harmon saw her husband stagger and she rushed forward to catch him. Dr. Geer was at once called, but Mr. Harmon passed away before the physician arrived.

Mr. Harmon was born 65 years ago in the Libbytown section of Portland, and had resided for a time in South Portland. He first took up taxidermy, but later entered the florist business. He was a man of amiable temperament and companionable disposition. Fishing was his favorite pastime and he had at Lake Sebago a commodious summer cottage where he enjoyed having the company of his congenial friends. He is survived by his wife, Elizabeth, and four sons, Edward, Chester and William of Portland and Henry of Waterville; one daughter, Mrs. Margaret Lewis of Harris street, Portland.

Thomas Wilson.

Thomas Wilson, formerly a florist in Newburyport, Mass., died at Davis, Cal., on June 26, aged 68 years. Mr. Wilson went West about 35 years ago and settled at Grass Valley, Cal., where he made a reputation as a florist, and was

appointed superintendent of the grounds connected with state agricultural school at Davisville, where he remained until failing health made it necessary for him to take up a less exacting position.

Sara Mills.

Miss Sara Mills, sister of C. D. Mills, of Jacksonville, Fla., passed away on Thursday of last week from complications following an operation performed at Garfield Hospital in Washington, D. C. Mr. Mills, who was in Washington during her illness, accompanied the body to Pittsfield, Mass., for burial.

Mrs. Wm. H. Hall.

Mrs. Elmaetta Hall, widow of William H. Hall, a florist of Brooklyn, died on Monday, June 26, at her home, 28 Stewart street, Brooklyn, in her sixty-ninth year. She was born in Barkhamsted, Conn. After the death of her husband thirteen years ago, Mrs. Hall ran the business herself. She left a daughter.



JAMES KIDD.

of Inverurie, Aberdeenshire, Scotland.
Killed in France, Dec. 23, 1915.

A nephew of Horticulture's Philadelphia representative, George C. Watson.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Registry.

Public notice is hereby given that John Dunbar, of Rochester, N. Y., offers for registration the new *Salvia splendens* Elizabeth Dunbar, described below. Any person objecting to the registration, or to the use of the proposed name, is requested to communicate with the secretary at once. Failing to receive objection to the registration, the same will be made three weeks from this notice.

Description: "Chance seedling. Calyx cream white, corolla pure white. Flower-spikes seven to ten inches long. Habit compact. Height when grown in groups, from base to top of flower spikes, twenty-four to twenty-six inches. Flowers continuously throughout the season. Comes true to seed."

JOHN YOUNG, Sec'y.

June 30, 1916.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending June 23, were recorded as follows:

Bulbs—England, \$64.
Plants—Belgium, \$2,680; France, \$10; England, \$215; Bermuda, \$46; Mexico, \$45; Cuba, \$65; British India, \$108; Japan, \$77; Venezuela, \$1,217; Costa Rica, \$35.

Red clover seed—France, \$29,278.

Clover seed—France, \$7,458; Netherlands, \$12,000; Canada, \$182.

Other seed—Denmark, \$4,049; France, \$1,649; Italy, \$646; Switzerland, \$176; England, \$9,205; Argentine, \$2,754; British Indies, \$26,332; British East Indies, \$834; Morocco, \$2,244; Mexico, \$2,577; Hongkong, \$62; Japan, \$3.

Carbonate of potash—Netherlands, \$17,535.

Nitrate of soda—Chile, \$545,730.

Guano—England, \$150.

MINNESOTA HORTICULTURAL SOCIETY.

On June 23 the annual meeting of the Minnesota Horticultural Society was held in the large new gymnasium of the Agricultural College, midway between the "Twin Cities." Peonies and strawberries were the chief attraction.

The superintendent of the State Experiment farm raised sixty thousand seedling strawberries. These were reduced to two hundred and then narrowed down to three. No. 3 was a marvel. Fruit as large as crabapples; enormously prolific; good shippers and of excellent quality. Fall berries that were allowed to bear in the spring showed splendid fruit of great size and excellence.

The peony show surpassed anything I ever saw—though I have attended the shows of the national society in Chicago and Boston. The soil and climate of Minnesota are remarkably adapted to this glorious flower. We import peonies from France of great beauty and do not know that up here in Minnesota we have those who originate peonies equal to those produced by the best propagators of Europe. For sixteen years the Brands of Fairbault, Minn., have carried on their great work, and their exhibit was a marvel. They have originated six reds of fine form, rich color and large size. Mary Brand is probably the best red peony on earth. It is of exactly the same color as the famous Karl Rosenfield, but is much larger.

The Brands have gone in on a large scale. They do not find one in a thousand worthy of a name and sometimes it will be but one in 5,000. The rest are discarded, so to compensate for the great expense they sell their new creations at \$5 to \$15 a root. Their productions have been but little known in the East, but as growers are becoming acquainted with them the demand is increasing.

A New Peony Society.

A call has been issued for a meeting for organizing a northwest peony society, to meet at the Great West Hotel at Minneapolis on June 28. Why should there be another society when we already have a national society? 1st, because the present society is national only in name. In the neighborhood of the Twin Cities there are fine peony gardens and an immense number of flowers are raised. Many persons of means have spared



KIRBY B. WHITE.

President-elect American Seed Trade Association.

no expense to secure the best the world affords. The great shows of Boston cannot produce as fine flowers as grow here. Again they are on the verge of a vast empire where these hardy flowers can glorify the desolations of the great bleak prairies. Repeated and urgent efforts have been put forth to draw the national society up here, but all to no avail, though the attendance and the enthusiasm would surpass that of any other location.

Yesterday at the peony show here about 1000 people gathered, while at Chicago there was hardly 100. Some western people belong to the national society and complain that their money goes east to pay premiums to eastern growers so they get no good of it.

Again the time of ripening does

not allow the Minnesota growers to compete with Boston, and those grown there are often nearly a month ahead of the north, so, as it is nearing the Fourth the northwest declares independence. It is designed to push a vigorous campaign of publicity into the Canadian provinces and perhaps have a meeting at Winnipeg, as peonies do remarkably well in those Canadian provinces.

C. S. HARRISON.

York, Nebr.

NEW HAVEN PARK NOTES.

Two vigorous growing briar roses attract attention in West Rock Park by their size and floriferousness—Regine Badet and Abel Cain. The latter is deep crimson and the first named is deep pink, very double and deliciously scented. Both form impenetrable thickets and grow to a height of six or eight feet with spread of equal dimensions. Superintendent Amrhyh has about completed the filling in of the new Beaver Hill district and is now building roads and doing other substantial development work which will so improve the neighborhood as to add much taxable high-class property. Trees throughout the park reservations are in splendid shape this season. The city nursery is now well stocked with vigorous young trees for street planting. The rose garden has attracted thousands of visitors and New Haven's unique park system was never so efficiently managed and attractive as it is today. Mr. Amrhyh has finally settled satisfactorily with the N. Y., N. H. & H. R. R. for the injuries he received in the Milford accident.

ROSE GARDEN INSPECTION.

The inspection of the rose test garden at Ithaca, N. Y., brought out a gratifying attendance of members of the Syracuse Rose Society and American Rose Society. The affair was under the direction of Prof. A. C. Beal. Addresses were made by S. S. Pennock, president of the American Rose Society, Robert Pyle, Dr. E. M. Mills and others. The American Rose Society held a session in Prof. E. A. White's office. J. E. Curry was appointed chairman of a committee to establish a municipal rose garden in Portland, Oregon. Others present were F. L. Mulford, Washington; H. H. Hoffman, Elmira; Benj. Hammond, Beacon; Jos. Heacock, Wyncote, Pa.; H. G. Bahret, Poughkeepsie; Dr. B. T. Galloway, David Lumsden and others connected with the college.

At the annual meeting of the Garden Club of America in Lenox, Mass., on June 30, there were discussions on the preservation of wild flowers, country roadside planting and extermination of poison ivy. The club chose Lake Forest, Ill., for the meeting in 1917. It was also voted to hold the convention of 1918 in Southampton, L. I., and that of 1919 in Cincinnati. The club elected as president Mrs. J. Willis Martin of Chestnut Hill, Phila.; vice-presidents, Mrs. Archibald D. Russell, Princeton, N. J.; Mrs. Benjamin T. Fairchild, New Milford, N. Y.; Mrs. John Newlands, Cleveland, Ohio; Mrs. Francis King, Alma, Mich.; Secretary, Mrs. Bayard Henry, Germantown, Phila.; treasurer, Mrs. Hugh D. Auchincloss, New York.

"Seeds with a Lineage" All Varieties

Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

SPECIAL OFFER TO THE TRADE ONLY OF GERMAN IRISES

in the following choice named varieties:

ASIATICUS. S. violet-blue; F. deep purple-blue.

BOCCAGE. S. soft lavender; F. maroon and veined maroon on a white ground.

BRONZE BEAUTY. S. sulphury-bronze; F. claret shading to light lavender, orange beard.

COMTE DE ST. CLAIR. S. pale blue; F. deep violet, striped and margined white.

EDITH. S. porcelain-blue; F. veined dark blue on a white ground;

ELIZABETH. S. pale blue, passing to grey; F. soft lilac-blue.

FLORENTINA PURPUREA. S. violet; F. purple.

FLORENTINA ALBA. (Queen Emma.) S. and F. soft shade of grey.

GARRICK. S. pale lavender; F. deep lavender.

GRACCHUS. S. pure yellow; F. crimson reticulated white.

HONORABLE. S. golden yellow; F. rich mahogany-brown.

INNOCENZA. S. ivory-white; F. white, striped maroon at base; beard golden.

JOHAN DE WITT. (Spectabilis.) S. light lilac-blue; F. purple.

KING EDWARD VII. (Plumeri.) S. soft rosy-lilac; F. crimson.

MADAME CHEREAU. S. and F. white, frilled azure blue.

MISS MAGGIE. (Hermoine.) S. silvery-lavender; F. suffused soft rose.

MORPHEUS. S. French grey; F. reticulated royal purple on a white ground.

MRS. H. DARWIN. S. pure white; F. white, reticulated violet at base.

PANCHREA. S. bronze; F. white, striped crimson.

PRESIDENT CARNOT. S. light blue; F. deep violet.

SAMBUCINA BEETHOVEN. S. rosy-lilac; F. purple with orange crest.

SPARTA. S. bronze-yellow; F. maroon margined old gold.

VAN GEERTII. S. bronze shaded lavender; F. very dark purple, veined white.

In the descriptions (S) is used to signify standards; (F) falls.

Prices of all the above varieties \$6.00 per 100; \$50.00 per 1000. September Delivery. **PALLIDA DALMATICA**—the finest pale blue Iris of the Germanica group. Price, \$12.00 per 100; \$100.00 per 1000. September delivery.

R. & J. FARQUHAR & CO., Boston, Mass.

Thorburn's GLADIOLUS

Various Choice Mixed
Varieties

See our Florists' Catalogue and ask for special prices.

J. M. THORBURN & CO.,
53 Barclay St., New York

POINSETTIAS

July and August Shipment

True type, fine 2½ inch plants, shipped in paper pots, \$6.00 per 100, \$50.00 per 1000.

A. HENDERSON & CO.

211 N. State St.

CHICAGO, ILL.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

WILL EXCHANGE

REX BEGONIAS

strong plants from 2¼ in. pots, for

BOSTON FERNS

from 2¼ in. pots

JAMES VICK'S SONS, Rochester,
N. Y.

MIGNONETTE

IMPROVED ECLIPSE.

Superior to all others for winter blooming, exhibition, or cutting. Immense fragrant spikes 10 to 15 inches long. Greenhouse grown seed from a re-selected strain. Pkt. 25c., 1/16 oz. \$1.00. Catalogue upon application.

THOMAS J. GREY CO., Seedsmen
29 So. Market St., Boston, Mass.

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries

166 W. 23rd St., NEW YORK

LILY BULBS

RALPH M. WARD & CO.
71 MURRAY ST., NEW YORK

SEEDS--ONION SETS

Appreciation of a high order of Merit in Seeds and Seed Service leads naturally to purchasing from

LEONARD SEED COMPANY

226-230 W. KINZIE ST., - - - CHICAGO



SEEDS for the FLORIST

ASTERS QUEEN of the MARKET.

The best extra early variety, large, double flowers, on long stems, in colors: Crimson, Dark Blue, Light Blue, Rose Peach Blossom, White.

Trade Packet, 20c., Oz., 75c.

Sweet Peas, Cyclamen, Primulas, Lily of the Valley, from Our Own Cold Storage Plant.

Our Trade List Mailed on Application.

FOTTLER, FISKE, RAWSON CO., THE SEED STORE
Faneuil Hall Square BOSTON

My new Price List of

WINTER-ORCHID-FLOWERING SWEET PEA SEED

Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

KEYSTONE SNAPDRAGON

Best Winter flowering Pink Snapdragon on the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.

PHILADELPHIA, PA.

LILIUM GIGANTEUM
COLD STORAGE

Extra Selected Stock. Gladiolus for forcing. Nannus, Colvilliel or large flowering type. Greenhouse Fertilizers. Ask for 1916 Seed Catalogue.

Joseph Breck & Sons Corp., Seedsmen
47-54 No. Market St., BOSTON, MASS.

MICHELL'S SEED HOUSE

518 Market Street, PHILADELPHIA, PA.

Burpee's Seeds
PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT

CANNAS, 3 Inch Pots

In the very best varieties—
\$3.00 per 100—\$25.00
per 1000

ROMAN J. IRWIN
108 W. 23th St., New York.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

For KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for New York. Write or Phone to

MAX SCHLING

22 West 59th Street, - Adjoining Plaza Hotel

Best Florists in the States as References.
EUROPEAN ORDERS EXECUTED.
Members of the Florists' Telegraph Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

WORCESTER, MASS.

Randall's Flower Shop

HARRY L. RANDALL, Proprietor.

Member Florists' Telegraph Delivery Association

Of Interest to Retail Florists**NEW FLOWER STORES.**

Fairville, Can.—Ida Oakes.

Geneseo, Ill.—Miss Maud Thomas.

Chicago, Ill.—Frank Rezzerte, 1154 Grand avenue.

Elkhart, Ind.—Wm. Currier, Orpheum Theater Bldg.

Newark, N. J.—G. Ludloff, 85 Springfield avenue.

Cleveland, O.—Jack Keck, Elite Florist, 8309 Cedar street.

Chicago, Ill.—Miss Mary Wittmer, Willoughby building, Michigan avenue and Madison street.

NEW CORPORATIONS.

Terre Haute, Ind.—Rosery Flower Shop, capital stock, \$5,000. Incorporators, Edward Reiss, Robert Nitsche and Kenwood Dragton.

BUSINESS TROUBLES.

Chicago, Ill.—Fred Ronsley, florist: no assets, liabilities, \$6,414.94.

Canton, Mass.—Albert G. Cartwright, gardener, assets, \$500, liabilities, \$2,409.77.

New York, N. Y.—The Bell Rosary, florists, 2654 Broadway: assigned to C. Edward Benoit.

Chicago, Ill.—McNeff-Swenson Company, florists' advertising matter: assets, \$2,772.90, liabilities, \$14,000.

NEWS NOTES.

Sharon, Pa.—Lohr Bros., of Ottawa, Ill., have taken over the greenhouses of M. O'Brien.

Chicago, Ill.—Pyfer & Olsem have leased the Peter Nipper greenhouses at Evanston, and will take possession July 15.

Racine, Wis.—Henry Benz, of Milwaukee, has purchased a half interest in the store of Joseph Rehl, 617 Main street.

WHY

Ginn The Florist ?
4 Park St., Boston, Mass.

Because Satisfaction
Is Guaranteed

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers Special Correspondence in all the large cities of Europe and the British Colonies Telegraph and Cable address Dardsflor

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery Association.



GUDE BROS CO
1214 F ST NW
WASHINGTON DC

GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

**IN THE
National Capital**

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2786
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD
NEW YORK

413 Madison Avenue at 48th Street.

WE GUARANTEE SATISFACTION
MEMBER F. T. D. A.

CHICAGOSend Your Orders to
WILLIAM J.**SMYTH**Member Florists' Telegraph
Delivery Association**Michigan Ave. at 31st Street**Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1836 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

SALTER BROS.
—FLORISTS—
38 Main Street, West
ROCHESTER, - N. Y.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE125,000 Sq. Ft. of Glass
WORCESTER, MASS.**Flowers by Telegraph**

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State St.

Albany, N. Y.—The Rosery, 23 Steuben St.

Albany, N. Y.—William C. Gloeckner, 97 State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont St.

Boston—Zinn the Florist, 4 Park St.

Buffalo, N. Y.—S. A. Anderson, 440 Main St.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid Ave.

Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th St.

Cleveland, O.—The Smith & Feters Co., 735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643 Broadway.

Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.

New London, Conn.—Reuter's.

New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.

New York—David Clarke's Sons, 2139-2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards. N. E. corner 44th St. and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stump, 761 Fifth Ave.

New York—Thos. F. Galvin, Fifth Ave., at 46th St.

New York—A. T. Bunyard, 413 Madison Ave., at 48th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.

Rochester, N. Y.—Salter Bros., 38 Main St., West.

San Francisco—Pelicano, Rossi & Co., 123 Kearny St.

St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.

Washington, D. C.—Gude Bros., 1214 F St.

Washington, D. C.—F. H. Kramer, 915 F St., N. W.

Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

Penn The Florist**"The Telegraph Florist"**

Member of Florists' Telegraph Delivery

124 Tremont St., **BOSTON****REUTER'S** Members Florists
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.We cover the territory between
New Haven and Providence**ST. LOUIS, MO.****FRED C. WEBER**
4326-28 Olive St.Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only**THE J. M. GASSER COMPANY,****CLEVELAND**

Euclid Avenue

The Far-Famed Flowers of

TORONTODelivered on mail or telegraph order for
any occasion, in any part of the Dominion.**JOHN H. DUNLOP**8-10 West Adelaide St. - **TORONTO, ONT.**

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER106 STATE STREET, **ALBANY, N. Y.**

J. H. SMALL & SONS

FLORISTS NEW YORK and WASHINGTON

Announce the removal of their New York store to

505 MADISON AVENUE, AT 52d STREET

WASHINGTON, D. C.
15th and H Streets

Floral and Landscape Work

NEW YORK—Waldorf-Astoria
and 505 Madison Ave.

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

M. C. Gunterberg has gone on a four days' northern boat trip.

Miss Paradise, of A. L. Vaughan & Co.'s, is spending her vacation in Denver, Colo.

The family of W. H. Kidwell is now installed in their summer home at Eagle Lake, Mich.

Miss Florence Scriven, of the Chicago Flower Growers' Association, is taking a two weeks' vacation.

The wholesale houses are all displaying signs, showing the scheduled time for closing to be 5 o'clock.

The American Seed Trade Association passed resolutions declaring Chicago to be an ideal convention city.

Mrs. Gulbrauson, of River Falls, Minn., is in Chicago and would like to stay for some time if she can secure a position here.

Fred Hoekstra, with Fruyling & Mendel, Grand Rapids, Mich., is visiting his brother-in-law, John Riemersma, a florist at 71st and Indiana avenue.

A County Fair, which includes a large floral section, will be held in Lake Forest, July 14 to 16. The flower poster is the work of Mrs. McGann and Miss Isabella Holt.

Chas. Macauley, treasurer of the Chicago Flower Growers' Association, is anxious to be rid of that honorary position, and at the annual meeting this week will try to shift the glory to some other member.

On June 29, John Canger and Miss Diamesis were married at the home

of the bride, 4448 Racine avenue. Mr. Canger was formerly a member of the firm of Canger & Gormley and has in recent years been with John Mangel, the Palmer House florist.

The closing up of the books for the year is now under way in most of the wholesale houses, July 1 being a sort of business New Year's day. Mrs. Phil Schupp returned from their cottage at William's Bay to assist in the annual event at J. A. Budlong's.

William Allen has resigned his position as gardener for J. A. Tilt, of Chicago, and has followed his family East for a visit before taking another engagement. Mr. Allen is very successful in his work and was several years in the East before coming to Chicago.

For ten years the families of Gust. Swenson, of Elmhurst, and J. Michaelson, of River Forest, have spent the Fourth of July together at Elmhurst. This year they spent it at River Forest, taking part in the parade which was a part of the celebration there.

Speaking of the abandonment of Asparagus plumosus strings from the list of greenhouse products of Chicago, O. Freese, of Poehlmann Bros., attributes it to the result of a fire ordinance forbidding its use in store decorations, which shut off its greatest avenue of sale. The sprays can be so successfully shipped from the South that greenhouse space can be used to better advantage than in growing them, so both strings and sprays are more seldom found now than formerly.

C. B. Knickman is calling on the trade in the interest of McHutchison & Co. He says the failure of some orders to be filled has been traced to the fact that the boats carrying these orders across the channel from England were destroyed by submarines. Such orders lost were usually late ones. Jas. McHutchison met Mr. Knickman here and they went together to Milwaukee to attend the nurserymen's convention, after which Mr. Knickman returns here and then leaves for California.

WASHINGTON, D. C.

The next regular meeting of the Florists' Club of Washington, D. C., will be held Tuesday evening, July 11. A discussion of plans for the outing to take place the following week will be the principal order of business.

It is rumored that Dr. B. T. Galloway, formerly assistant secretary of the Department of Agriculture, has resigned his position as dean of the agricultural college of Cornell University and will re-enter the Government service when his resignation is accepted. It is believed that Dr. Galloway will engage in special research work in the Bureau of Plant Industry.

The Senate has once more voted to throw out the appropriation in the Agricultural Appropriation Bill providing for the purchase and distribution of Congressional free seeds. It is expected, however, that the Senate will later agree to again making the purchase of these seeds, as it has in previous years, for the reason that the House has already adopted the provision and it will be conceded to when the bargaining starts after the bill goes to conference.

Walter Hawley, of Gude Bros. Company, with Mrs. Hawley, will spend the month of July at his former home in Brooklyn, N. Y. Louis Hohman will use his vacation period in teaching the newly-arrived Louis, Jr., how to say "Papa." Miss Jessie Windsor, also with the same firm, will spend a part of her four weeks' vacation on the Boardwalk at Atlantic City. Mrs. Fred H. Kramer and her daughter, Frieda, is spending the summer in Atlantic City, N. J. Mr. Kramer joins them frequently for week-end stays. Frank Weaver, who is employed by the Leo Niessen Company, will remain at Chesapeake Beach, Va., for two weeks.

FLOWERS BY TELEGRAPH

SAN FRANCISCO

CALIFORNIA

Pelicano, Rossi & Co.

128 KEARNY ST.

HIGH GRADE PLANTS

For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.

PROFITS PROFITS PROFITS

There's Money in Summer Business for the Florist Who Knows How to Please

We can supply you with strictly up-to-date accessories, which you **must** have if you want to give satisfaction. Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

1129 Arch Street, PHILADELPHIA, PA.

PITTSBURGH.

A. A. Leach, superintendent of Greenlawn, has just returned from a two weeks' eastern trip.

James Murray McGrew, salesman for G. P. Weaklin & Co., is taking a fortnight's vacation in Cleveland and on his farm nearby.

Edward J. McCallum and Clarence C. Phillips left on last Saturday night for Independence, W. Va., and a fishing trip along the Cheat river.

Wilhom J. Ferguson, who recently opened a retail flower and landscape shop on Penn avenue, is spending a part of his vacation in Cleveland, Ohio.

Miss Eliza McKinley, the head saleswoman for Randolph & McClements, went to Greensburg, Pa. last Monday for a two months' sojourn.

Accompanied by his family, Edward L. McGrath, manager of the Blind Floral Co., will leave on the 16th inst. for North East on Lake Erie, for a two weeks' sojourn.

John R. Bracken, of the Oglesby Paul estate, Phila., formerly an attache of the landscape department of the A. W. Smith Co., has returned east after a several days' visit in McKeesport.

NEW YORK.

A good sized party is assured for the trip to Bar Harbor, Me., on Thursday night, July 13.

There has been another joint committee meeting at the Hotel Manhattan and the prospects are that a mutually satisfactory basis for co-operation in another "International" Flower Show next spring will soon be reached.

Word comes from T. B. DeForest, who, with his bride, is on a honeymoon trip, dated at Panama, saying that they have been through the Canal and have found a wonderful country, flower bedecked everywhere. Quite so.

E. Leuly of West Hoboken, who for many years has made it a practice to

A WELL GROWN GLOXINIA.



Our illustration shows a sturdy specimen of the upright flowered *Gloxinia speciosa* as grown for florist store sales by Sam. Murray of Kansas City. This plant is in a 7-inch pot but Mr. Murray says he usually grows them in 5-in. pots and he has sold 500 of them this spring. Fancy-leaved caladiums, he states have also found a ready and eager market this season. Florists who aim to hold a position in the front rank can do it by adopting Sam. Murray's plan of always having something to offer that "the other fellow hasn't got."

travel to the S. A. F. Convention by bicycle, started on his way to Houston on Thursday of this week, expecting to set there on time unless the Mexicans shoot at him.

The firm of Moore, Hentz & Nash, formerly composed of Frank L. Moore, Henry Hentz, Jr. and Jonathan Nash, was dissolved on May 27th, by the death of Mr. Nash. The assets, liabilities and other affairs of said firm are now in process of liquidation.

Gloxinias are usually grown from the tuberous roots offered by seedsmen but may be raised from seed or by cuttings of shoots or matured leaves. For summer blooming the roots can be started in February and afterwards. Seedlings germinated in February will bloom late in the same year. Gloxinias require a stove temperature but will keep longer if given a lower temperature and more air when they have come into bloom. They do not relish cold water nor too much sun. Do not spray the foliage nor let the plants remain too long in small pots.

BOSTON.

Mrs. E. M. Gill, one of the oldest florists in Massachusetts, observed her 86th birthday anniversary on June 28. She is in rather poor health at the present time.

The gladioli at Cedar Acres, Wenham, Mass., will be shown on Wednesday afternoon, August 9th, from three until seven o'clock for the benefit of the American Ambulance Hospital at Neuilly, France. Tickets, 50 cents.

Now Is The Time To Put
In Next Season's Supply of
SPHAGNUM MOSS

Six 5 Bbl. Bales for \$10.00

This is the biggest value in Moss you can buy. Our Moss is clean and fresh and each bale is wrapped.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S
Wholesale & Commission Florists
FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

EDWARD REID
WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER
122 West 25th St., New York
Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. GOWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHLAND, IND.

Please mention Horticulture when writing.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE

Plantsmen and Florists

37 and 39 West 28th St., NEW YORK



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut
Flower Market

Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

226 DEVONSHIRE ST.,
Telephone, Main 6267-6268

BOSTON, MASS.

**WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100
TO DEALERS ONLY**

	BOSTON July 6		ST. LOUIS July 2		PHILA. July 3	
Roses						
Am. Beauty, Special.....	15.00	to 20.00	15.00	to 25.00	20.00	to 25.00
" " Fancy and Extra.....	10.00	to 15.00	8.00	to 10.00	10.00	to 15.00
" " No. 1.....	1.00	to 6.00	1.00	to 5.00	3.00	to 8.00
Russell, Hadley.....	2.00	to 12.00	5.00	to 10.00	2.00	to 15.00
Killarney, Richmond, Hillingdon, Ward, Extra.....	2.00	to 4.00	5.00	to 8.00	5.00	to 8.00
" " Ordinary.....	.50	to 2.00	3.00	to 4.00	1.00	to 4.00
Arenburg, Radiance, Taft, Key, Extra.....	3.00	to 6.00	.....	to	4.00	to 8.00
" " Ordinary.....	.50	to 2.00	.....	to	1.00	to 4.00
Ophelia, Mock, Sunburst, Extra.....	3.00	to 5.00	5.00	to 8.00	5.00	to 8.00
" " Ordinary.....	1.00	to 2.00	2.00	to 3.00	1.00	to 4.00
Carnations, Fancy.....	.75	to 1.00	2.00	to 3.00	1.50	to 2.00
" " Ordinary.....	.35	to .50	.75	to 1.00	.50	to 1.50
Cattleyas	20.00	to 25.00	30.00	to 40.00	25.00	to 40.00
Dendrobium formosum.....	.....	to 25.00	.....	to .....	.....	to
Lilies	3.00	to 4.00	10.00	to 12.50	6.00	to 8.00
Lily of the Valley	4.00	to 5.00	4.00	to 5.00	3.00	to 6.00
Daisies	1.00	to 2.00	.25	to .35	.50	to 1.00
Mignonette	1.00	to 1.00	.....	to .....	.....	to
Snapdragon	2.00	to 3.00	3.00	to 4.00	1.00	to 3.00
Peonies.....	.....	to .....	.....	to	2.00	to 4.00
Gladioli	2.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Calendulas.....	.....	to 1.00	2.00	to 3.00	.....	to
Stocks	1.00	to 2.00	2.00	to 3.00	.....	to
Sweet Peas.....	.40	to .75	.15	to .25	.20	to .60
Gardenias	20.00	to 25.00	.....	to .....	.....	to
Adiantum.....	.....	to 1.00	1.00	to 1.25	.....	to 1.00
Smilax	10.00	to 12.00	12.00	to 15.00	20.00	to 25.00
Asparagus Plumosus, & Sprea. (100 Bchs.)	25.00	to 35.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co.
Wholesale Florists

383-387 ELLICOTT ST.

BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

BOSTON The drowsy lassitude of the "dead of summer" has settled down on the flower markets and stores and we are now in the dullest week of the year. Quantities of flowers far in excess of any possible requirement are received daily and the growers are satisfied to get whatever they can out of the occasional sales. Roses are rapidly growing smaller from day to day. Carnations are a dead weight and a larger part of the receipts are thrown away. Trading is at a standstill in all departments.

The ending of June was **BUFFALO** satisfactory to the merchants. Business throughout the whole month exceeded the year previous. The supply was not heavier but the business was far better, more weddings, also more graduating flowers were used and the stock was fine. Roses, especially white and pink Killarney, together with Ophelia, Sunburst and Maryland were still in their winter form though there was plenty of the mildewed quality and others which showed the effects of the heat. Carnations were also good and there was a fine lot of the late variety of peonies. Beauties were of ordinary quality and the call felt toward the medium grades. Lily of the valley was of course in good demand, but there was enough to go around. Lilies have held out well.

The summer season **CHICAGO** seems to have arrived all at once, for the spring trade has held on well. Stock has kept up in quality, owing to cool weather. Very good carnations are still coming in and it is evident that growers know how to get a longer season than they had a few years ago. Excellent American Beauty roses are seen in all lengths. Now that weddings and commencements are over, lily of the valley has had a chance to catch up and some good stock, larger than a few weeks ago, is seen, but not plentiful enough to lower the price. The call for lilies continues fair. All kinds of roses are in good supply and the buyer who wants good stock can find it and buy to advantage. New ferns from Michigan are selling at \$1.50 per thousand and are of good quality. Smilax strings are longer and heavier than earlier in the season. Cattleya gigas is now coming into bloom in quantity at Poehlmann Bros. They are selling for six dollars per dozen and are of excellent quality.

Business has been **CINCINNATI** very quiet since the first of last week. There is plenty of good stock and prices are rather low. Roses meet with a fair sale. Lilies are in a heavy supply and move very slowly. The carnation cut is decreasing. Gladioli prove good property. Hardy hydrangeas are excellent. Snapdragon meets with a fair demand. The same is true of water lilies. Plenty of larkspur, coreopsis and corn flower.



RUSSELL

One of the very best hot weather roses on the market today. In quantity with us at present.

\$6, \$8, \$10, \$12 and \$15 per doz.

A few extra long "Specials" at \$2.00 per doz.

CATTLEYAS

\$5.00 and \$6.00 per dozen.

S. S. PENNOCK-MEEHAN CO.

The Wholesale Florists of Philadelphia

PHILADELPHIA
1608-1620 Ludlow St.

NEW YORK
117 W. 28th St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.

EXCLUSIVE FLORISTS' RUBBONS AND SUPPLIES.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI July 3		CHICAGO July 3		BUFFALO July 3		PITTSBURGH July 3	
Roses								
Am. Beauty, Special	25.00	to 35.00	15.00	to 20.00	20.00	to 25.00	20.00	to 25.00
" " Fancy and Extra	15.00	to 20.00	10.00	to 15.00	15.00	to 20.00	12.50	to 15.00
" " No. 1	8.00	to 15.00	4.00	to 10.00	8.00	to 12.00	6.00	to 10.00
Russell, Hadley	8.00	to 12.00	3.00	to 20.00	.....	to 6.00	.....	to 4.00
Killarney, Richm'd, Hill'don, Ward	0.00	to 8.00	6.00	to 8.00	5.00	to 7.00	6.00	to 12.00
" " Ord.	3.00	to 5.00	2.00	to 5.00	3.00	to 4.00	2.00	to 4.00
Arenburg, Radiance, Taft, Key, Ex.	0.00	to 8.00	.....	to 10.00	.....	to 7.00	0.00	to 10.00
" " Ord.	2.00	to 5.00	.....	to 10.00	3.00	to 4.00	2.00	to 4.00
Ophelia, Mock, Sunburst, Extra	0.00	to 8.00	0.00	to 8.00	5.00	to 7.00	6.00	to 10.00
" " Ord.	3.00	to 5.00	2.00	to 5.00	3.00	to 4.00	2.00	to 4.00
Carnations, Fancy	2.00	to 3.00	1.50	to 2.00	1.50	to 2.00	2.00	to 3.00
" " Ordinary	1.00	to 1.50	.....	to 1.00	1.00	to 1.50	1.00	to 1.50
Cattleyas	50.00	to 60.00	50.00	to 60.00	50.00	to 60.00	50.00	to 60.00
Dendrobium formosum	.....	to 10.00	.....	to 10.00	.....	to 10.00	.....	to 10.00
Lilies	10.00	to 12.00	8.00	to 10.00	2.00	to 3.00	10.00	to 12.00
Lily of the Valley	5.00	to 10.00	4.00	to 6.00	4.00	to 6.00	4.00	to 6.00
Daisies	.50	to 1.00	1.00	to 1.25	.50	to .75	.....	to 1.00
Mignonette	3.00	to 4.00	2.00	to 4.00	1.00	to 2.00	.....	to 1.00
Snapdragon	4.00	to 6.00	3.00	to 5.00	2.00	to 3.00	.....	to 1.00
Peonies	.....	to 10.00	3.00	to 6.00	2.00	to 3.00	.....	to 1.00
Gladioli	4.00	to 6.00	4.00	to 8.00	4.00	to 6.00	6.00	to 8.00
Calendulas	2.00	to 3.00	.....	to 2.00	1.00	to 2.00	.....	to 1.00
Stocks	2.00	to 3.00	.....	to 1.00	1.00	to 2.00	.....	to 1.00
Sweet Peas	.35	to .50	.50	to 1.50	.25	to .75	.50	to 1.25
Gardenias	.....	to 1.00	.....	to 1.25	1.00	to 1.25	1.00	to 1.25
Adiantum	.....	to 15.00	12.00	to 20.00	15.00	to 20.00	12.50	to 15.00
Smilax	.....	to 15.00	12.00	to 20.00	15.00	to 20.00	12.50	to 15.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 35.00	25.00	to 50.00	35.00	to 50.00	30.00	to 40.00

NEW YORK We hate to say it but the truth must be observed in these momentous notes—the ashman's chariot is one of the principal consumers of flowers in the wholesale district at present. Roses, lilies—lily of the valley, even—are being shipped in abundantly and a large percentage get no further but here come to an ignoble end, for the summer days are with us, the dullest of the year, and, in short, "there's nothing doing."

Summer conditions are now prevailing with the usual slowing up in receipts and distribution but the past week has been fairly satisfactory all things considered. There was a big hurrah over the ad-men's convention but these men seemed to be here mostly for a good time and there did not appear to be any extra demand for flowers in any direction on their account. Early closing—5 p. m. week days and 1 p. m. Saturdays, is now in order. The vacation season has also started in.

PITTSBURGH With the exception of roses, of which there has been a little overstock, the market demands just about parallel the supply. Pond lilies are coming in from Sandusky, Ohio. There is a perceptible scarcity of lily of the valley. There is also a scarcity of longiflorum lilies for the time being. With the exception of the few changes noted above, the market remains in both quantity, quality and prices about the same as last week.

The wholesale market **ST. LOUIS** conditions for the past week were good as far as supply was concerned, but the retailers did not have any too much business and demand was light. Summer dullness is now on and vacations are in order. Roses and carnations are many more than the demand calls for. Sweet peas are many and exceedingly cheap. Gladioli, too, are coming down in price, while lily of the valley goes up. Lilies are in demand.

Continued page 5

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE 608 / 609 MADISON SQ., NEW YORK

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.
Laurel, Hemlock, all Decorative Evergreens.
Tel. 1593 / 5893 Mad. Sq. 119 W. 28 St., New York

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

28 Willoughby St., Brooklyn, N. Y

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3576 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.

Wholesale Commission

READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. - - - - BOSTON
Telephone Main 58.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE 2281 / 3089 FARRAGUT 131 West 28th St., NEW YORK CITY

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS
GARDENIAS, DAISIES, ROSES, CARNATIONS

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 7062 Madison

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones 1684 / 1685 Madison Square

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

American Beauty, Special	
" " Fancy and Extra	
" " No. 1	
Russell, Hadley	
Killarney, Richmond, Hillingdon, Ward, Extra	
" " Ordinary	
Arenburg, Radiance, Taft, Key, Extra	
" " Ordinary	
Ophelia, Mock, Sunburst, Extra	
" " Ordinary	
Carnations, Fancy	
" " Ordinary	

Last Half of Week
ending July 1
1916

First Half of Week
beginning July 3
1916

15.00 to 20.00	15.00 to 20.00
10.00 to 12.00	10.00 to 12.00
2.00 to 6.00	2.00 to 6.00
3.00 to 15.00	2.00 to 12.00
3.00 to 4.00	3.00 to 4.00
.50 to 2.00	.50 to 2.00
4.00 to 5.00	3.00 to 4.00
.50 to 2.00	.50 to 2.00
4.00 to 6.00	4.00 to 6.00
1.00 to 3.00	1.00 to 3.00
1.00 to 1.50	1.00 to 1.50
.75 to 1.00	.50 to 1.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for doing
our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK
Phones 2036, 2037, 558 Farragut

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797-798-799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality.

114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13—8510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 51)

Business last week
WASHINGTON showed a decided falling off. The weather is now of the regular Washington summer variety and all flowers are showing the effects. Roses are very poor and it is a hard matter to get any quantity of good carnations. Lily of the valley has been scarce and many out-of-town orders had to be refused. It will be more plentiful now that the June wedding demand has fallen off. Gladiolus is in fair demand.

PHILADELPHIA.

Samuel S. Pennock has been busy recently moving to his summer home at Westerly, R. I.

John Westcott and immediate members of his family went to Waretown for Fourth of July week according to long established custom.

Ocean City, N. J., claims John Gracey, Charles E. Meehan, Edwin J. Fancourt and a number of other prominent members of the craft.

The regular monthly meeting of the Florists' Club will be held in the Club Room, on Tuesday, July 11th, 1916, at 8 P. M. The proper meeting date is the first Tuesday, but this being July 4th, the officers of the club decided to hold the meeting on the second Tuesday, July 11th. Dr. John Washburn, of the National Farm School, Bucks Co., Pa., will give an illustrated lecture, subject: "How to make good Gardeners. Florists and Farmers out of the submerged population of the great cities of this country."

CINCINNATI.

The Wm. Murphy Co. has begun to ship carnation plants. They are unusually good this year.

C. E. Critchell, Jr., whose adenoids and tonsils were removed last week is recovering nicely from the operation.

Local florists are grieved to hear of the death of George Greensmith, son of Herbert Greensmith of this city, by drowning in the Delaware river, near Riverton, N. J., last Sunday, and sympathize with the bereaved family.

C. E. Critchell has leased quarters in the Swift building on Third street, near Vine, and is having the place remodeled. When completed the store will be one of the most convenient and best arranged in this part of the country. Mr. Critchell will move into the new place about August 1st.

PERSONAL.

Theodore Wirth, of Minneapolis, and J. J. Hess, of Omaha, are enjoying a fishing trip in Wisconsin.

Otto Grade of the Fox Point Floral Co., Milwaukee, Wis., and Miss Elvina Ehlers, were married on June 24.

E. E. Bruggerhof, of J. M. Thorburn & Co., New York, is spending his vacation at his summer place in Randolph, N. H.

T. F. Sheehan, florist, Springfield,

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending July 1 1916	First Half of Week beginning July 3 1916
Cattleyas	15.00 to 35.00	15.00 to 25.00
Dendrobium formosum	20.00 to 25.00	20.00 to 25.00
Lilies	2.00 to 4.00	2.00 to 4.00
Lily of the Valley	3.00 to 6.00	3.00 to 5.00
Daises	.50 to 1.00	.50 to 1.00
Mignonette	1.00 to 1.00	1.00 to 1.00
Snazdragon	1.00 to 3.00	1.00 to 3.00
Peonies	1.00 to 1.00	1.00 to 1.00
Gladioli	1.00 to 4.00	1.00 to 4.00
Calendulas	1.00 to 1.50	1.00 to 1.50
Stocks	1.00 to 2.00	1.00 to 2.00
Sweet Peas	.15 to .75	.15 to .75
Gardenias	4.00 to 12.00	4.00 to 12.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	10.00 to 12.00	8.00 to 10.00
Asparagus Plumosus, & Spreu (100 bunches)	15.00 to 25.00	15.00 to 25.00

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street
167 & 3058 Farragut NEW YORK

Established 1888

Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists
110 West 28th St., New York
We Solicit Consignments of New
England Grown Novelties.

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST
Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square
BOSTON, MASS.
Telephone 2618-2617-2616, Main.

Mass., and Miss Mary L. Driscoll, were married Wednesday morning, June 28th, in that city.

Frank G. Cuthbertson, of C. C. Morse & Co., seedsmen, San Francisco, Cal., and Miss Evelyn Mathilde McLean, were married last week.

Prof. A. H. Nehrling and Miss Ada Kathryn Joseph were married at South Bend, Ind., on June 29. Mr. and Mrs. Nehrling will be at home in Amherst, Mass., after October 1.

Announcement is made of the engagement of Joseph F. Myers of Myers & Samtman, Wyndmoor, Pa., and Miss Helen, daughter of George E. Campbell, rose grower of Flourtown, Pa.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK
Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission
Consignments of
Good Stock Solicited

PERCY W. RICHTER, Mgr, NEW YORK
111 W. 28th Street

HERMAN WEISS

Wholesale Florist

Experienced, Progressive and can handle shipments of growers' product satisfactorily.

106 West 28th St., NEW YORK
Tel. Farragut 3066.

STRAIGHT WHOLESALE ONLY

FRANK MILLANG CUT FLOWERS

55-57 W. 26th St., NEW YORK
NO DESIGNS MADE UP

Visitors' Register

Minneapolis, Minn.—J. J. Hess, Omaha.

Boston, Mass.—Wallace R. Pierson, Cromwell, Conn.; Henry Lawrence, Suffield, Conn.; C. W. Hoitt, Nashua, N. H.

Chicago—F. W. Smith, of Smith & Feters, Cleveland, O.; Fred Hoeksted, with Fruyling & Mendel, Grand Rapids, Mich.; Mrs. Gulbranson, River Falls, Minn.; Gust Raasch, Kankakee, Ill.; Mrs. W. C. Johnson, Crookston, Minn.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

W. H. Elliott, Brighton, Mass.
Asparagus Plumosus Nanus.
For page see List of Advertisers.

Asparagus Plumosus Seedlings, \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

ASTERS

ASTER PLANTS, Crego and Semple's, mixed and separate colors. Strong, well-rooted plants, shipped prepaid, 60c. per 100; \$3.90 per 1000. HARRY E. SQUIRES, Remsenburg, N. Y.

AUCTION SALES

The MacNitt Horticultural Co., New York City.
For page see List of Advertisers.

Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

BAMBOO CANES

Ralph M. Ward & Co., New York City.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price list.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

W. A. Riggs, Auburndale, Mass.

Bedding plants: Geraniums, Nutt, Ricard, Poitevine, Viald, Buchner and Rose geraniums, 3½ and 4 in., \$6.00 and \$8.00 per 100. Cannas, Austria and Robusta (bronze), 3½ in., \$6.00 per 100. Heliotrope (dark), 3½ in., \$6.00 per 100. Salvia Bonfire, 3½ in., \$5.00 per 100. Dracena indivisa, 5 in., \$20.00 per 100. Salleri geraniums, Coleus Trailing Queen, double Sweet Alyssum, Begonia Vernon, white Marguerites, blue Ageratum, 3 in., \$4.00 per 100. Cash.
F. SOKOL, College St., Worcester, Mass.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
Rex Begonias.

BEGONIAS.

Lorraine, 2½ in. pots, \$12.00 per 100; Cincinnati, 2½ in. pots, \$15.00 per 100; Mrs. J. A. Peterson (New), 2½ in. pots, \$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Hitchings & Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

BOX TREES—Standards, Pyramids and Bush. Price list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
Gladoli.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
Lily Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Forcing Bulbs and Plants.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Mr. B. Progressive, Florist,
Everywhere, U. S. A.

Dear Sir: It will be a decided advantage as regards prices and quality to place your order with us.

Soliciting your order through this ad cuts down the overhead selling expenses and you positively get lower prices and better quality. Our terms are liberal and are a guarantee that you get a square deal, all bulbs guaranteed true to name or money refunded.

Write us and upon request we will mail you our booklet giving prices f. o. b. New York or Chicago, and we also cheerfully furnish you with any information that may be desired. Those of our friends who will mail us a list of their requirements will find it has paid them to do so.

Awaiting to hear from you at your pleasure, we remain,
Yours very truly,

Westerbeek & Klyn,
Sassenheim, Holland.
Write to WESTERBEEK & KLYNN, 14 STONE ST., NEW YORK, N. Y.

BULBS AND TUBERS—Continued

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc., New York City.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

CANNAS

Rowan J. Irwin, New York City.
For page see List of Advertisers.

CARNATIONS

Cottage Gardens Co., Inc., Queens, N. Y.
New Carnation Cottage Maid.
For page see List of Advertisers.

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 postpaid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
Pompon Chrysanthemums.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Early Lavender Pink Chrysanthemum
Alex Guttman, also Emma, a Garza
Anemone, Double Pompon,
pale pink.

DAHLIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Send for Wholesale List of Whole clumps and separate stock; 40,000 clumps for sale. Northboro Dahlia and Gladiolus Gardens, J. L. MOORE, Prop., Northboro, Mass.

IF YOU INTEND growing Dahlias for cut flowers then you will make no mistake if you will try my assortment, especially selected for cut flower production. Three whites, 3 pinks, 1 red, 1 yellow, 1 lavender, 1 fancy; all field roots, labeled true to name; per 100, 10 of each kind, \$3.00; per 1000, 100 of each kind, \$25.00. 50 at 100 and 500 at 1000 rates. Cash with order. Guarantee entire satisfaction. If interested in Dahlias, then please send for my wholesale trade list of Dahlias.

MANNETTO HILL NURSERY,
W. A. FINGER, Prop., Hicksbury, N. Y.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

For List of Advertisers See Page 35

DECORATIVE PLANTS

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

EXCURSIONS

Hudson Navigation Co., New York City.
To the Heart of Leisureland.
For page see List of Advertisers.

FERNS

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y.
- Boston Ferns Wanted.
For page see List of Advertisers.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

Collin Campbell, New York City.
Hyper-Humus.
For page see List of Advertisers.

FLORISTS' PLANT STOCK

Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums S. A. Nutt, rooted cuttings,
\$3.00 per 1,000; 2 1/4 in., \$15.00 per 1,000.
First class stock. Cash. FRANK LEITH
& SON, Haverhill, Mass.

500 Buchner, 3 in., 6 cents; 500 S. A.
Nutt, 3 in., 6 cents. GEO. P. GRIDLEY,
Wolfboro Falls, N. H.

GLADIOLI

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Forcing Gladioli.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, cas-
tles, globes, aquarium, fish goods, nets,
etc., wholesale. FRANKLIN BARRETT,
Breeder, 4815 D St., Olney, Philadelphia,
Pa. Large breeding pairs for sale. Send
for price list.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset,
Boston.
Pecky Cypress.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

John C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Hitchings & Co., New York City.

Metropolitan Material Co., Brooklyn, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit,
Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

Palisades Nurseries, Inc., Sparkill, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co.,
Chicago, Ill.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Mass.
Lord & Burnham Co., New York City.

HOSE

H. A. Dreer, Philadelphia, Pa.
Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

**HYDRANGEAS FOR SUMMER BLOOM-
ING**

F. R. Pierson Co., Tarrytown, N. Y.
For page see List of Advertisers.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

IRIS

R. & J. Farquhar & Co., Boston, Mass.
German Iris.
For page see List of Advertisers.

John Lewis Childs, Flowerland, N. Y.
German Iris.
For page see List of Advertisers.

LILY BULBS

Chas. Schwabe & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.
For page see List of Advertisers.

McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
Bermuda and French Lily Bulbs, also Cold
Storage Giganteum.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwabe & Co., Inc., New York City
Hohmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman-Publishing Co., Inc.,
Hathboro, Pa.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

ONION SETS

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

PANSY SEED

Henry F. Michell Co., Philadelphia, Pa.
Giant Prize Pansy Seed.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

French Peonies can be shipped with
celerity and security via Bordeaux-New
York. Catalogues free. DESSERT, Peony
Specialist, Chenonceaux (L. & L.), France.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

ROSES—Continued.

W. H. Elliott, Brighton, Mass.
Grafted and Own Root Rose Stock.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS. THE
CONARD & JONES COMPANY, WEST
GROVE, PA.

ROSE STAKES

The Carnation Support Co.,
Connersville, Ind.
For page see List of Advertisers.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Boigiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Winter Flowering Spencer Sweet Pea Seed.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snappdragon.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

Jas. Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Mignonette, Improved Eclipse.
For page see List of Advertisers.
Fottier, Fliske, Rawson Co., Boston, Mass.
Seeds for the Florist.
For page see List of Advertisers.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

The Leo Niessen Co., Philadelphia, Pa.
For page see List of Advertisers.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
For page see List of Advertisers.

C. C. Morse & Co., San Francisco, Calif.
Early Flowering Spencer Sweet Peas.

TREE SURGERY

The Davey Tree Expert Co., Kent, Ohio.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Celery Plants, Golden Self-blanching
(French Strain), fine plants, ready for the
field, \$2.00 per 1,000; 5,000 for \$7.50. Cash.
BRILL CELERY GARDENS, Kalamazoo,
Mich.

VEGETABLE PLANTS—By mail or ex-
press prepaid. Strong, well-rooted plants
in large or small lots at reasonable prices.
Will promptly replace any that do not ar-
rive in 1st-class condition. Leading va-
rieties, Cabbage, Tomato, Cauliflower, Cel-
ery, Sweet Potato, Asparagus, Rhubarb,
Beet, Lettuce, Pepper, Egg Plants. Also
Asters. Catalog free. HARRY M.
SQUIRES, Remsenburg, N. Y.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VINCAS

Vinca Var., 4 in., heavy, \$12.50 per 100;
good, \$10.00 per 100; extra heavy, \$15.00 per
100. WILLIAM CAPSTICK, Auburndale,
Mass.

WEED KILLER

Pino-Lyptol Chemical Co., New York City.
Pino-Lyptol Weed Killer.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.
H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

For List of Advertisers See Page 35

WHOLESALE FLORISTS
Buffalo, N. Y.William F. Kastling Co., 383-87 Elliott St.
For page see List of Advertisers**Chicago**Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of AdvertisersJ. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers**Detroit**Michigan Cut Flower Exchange, 264-266
Randolph St.
For page see List of Advertisers**New York**H. E. Froment, 148 W. 28th St.
For page see List of AdvertisersJames McManus, 105 W. 28th St.
For page see List of AdvertisersW. F. Sheridan, 133 W. 28th St.
For page see List of AdvertisersP. J. Smith, 131 West 28th St.
For page see List of Advertisers

Moore, Hentz & Nash, 55 and 57 W. 26th St.

Charles Millang, 55 and 57 West 26th St.
For page see List of AdvertisersW. P. Ford, 107 W. 28th St.
For page see List of AdvertisersJ. K. Allen, 118 West 28th St.
For page see List of AdvertisersThe S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of AdvertisersTresendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
For page see List of AdvertisersBadgley & Bishop, Inc., 34 West 28th St.
For page see List of AdvertisersWoodrow & Marketos, 37 and 39 W. 28th St.
For page see List of AdvertisersRiedel & Meyer, Inc., 49 West 28th St.
For page see List of AdvertisersGeorge C. Siebrecht, 109 W. 28th St.
For page see List of AdvertisersJohn Young & Co., 53 West 28th St.
For page see List of AdvertisersM. C. Ford, 121 West 28th St.
For page see List of AdvertisersUnited Cut Flower Co., Inc., 111 W. 28th St.
For page see List of AdvertisersGuttman & Reynor, Inc., 101 W. 28th St.
For page see List of AdvertisersGunter Bros., 110 West 28th St.
For page see List of AdvertisersHenry M. Robinson Co., 55-57 W. 28th St.
For page see List of AdvertisersW. R. Siebrecht, 114 West 28th St.
For page see List of AdvertisersHerman Weiss, 106 West 28th St.
For page see List of AdvertisersJ. J. Coan, 115 West 28th St.
For page see List of AdvertisersFrank Millang, 55-57 West 26th St.
For page see List of AdvertisersGeorge W. Crawbuck Co., 57 West 28th St.
For page see List of Advertisers**Philadelphia**Leo. Niessen Co., 12th and Race Sts.
For page see List of AdvertisersEdward Reid, 1619-21 Ranstead St.
For page see List of AdvertisersThe S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
For page see List of Advertisers**WHOLESALE FLORISTS**
Richmond, Ind.E. G. Hill Co.
For page see List of Advertisers**Rochester, N. Y.**George B. Hart, 21 Stone St.
For page see List of Advertisers**Washington**The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers**New Offers In This Issue****FERNS IN FLATS**A. M. Davenport, Watertown, Mass.
For page see List of Advertisers**HOLLAND GROWN BULBS.**The MacNiff Horticultural Co.,
New York City.
For page see List of Advertisers**POINSETTIAS.**A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers**THE KENILWORTH GIANT PANSY.**Chas. Frost, Kenilworth, N. J.
For page see List of Advertisers
UNDER FOR SALE**WINTER FLOWERING SPENCER
SWEET PEAS.**Arthur T. Boddington Co., New York City
For page see List of Advertisers**NEW BOOK****JUST ISSUED****Plant Propagation Greenhouse
and Nursery Practice** By
M. G. KAINS

So many discoveries of new facts by plant investigators, shortcuts and "wrinkles" worked out by plant propagators, and nursery, greenhouse and garden methods simplified or made more effective, have made books hitherto available on plant propagation out of date.

There has also been an insistent call for a volume that would not only include the character of information wanted by nurserymen and other plant propagators, but also discuss the subject of plant propagation from the standpoint of fundamental principles, and include the latest conclusions advanced by investigators throughout the world.

This new book by Professor Kains will appeal with equal force to the amateur, the professional propagator, and the teacher in agricultural colleges and schools.

The book devotes many pages to special plant lists and condensed directions for propagation of vegetables, fruits, annual and perennial flowers, bulbs, ferns, orchids, cacti, evergreens, deciduous trees and shrubs, vines, water plants, greenhouse and house plants and palms.

The table of contents includes: An introduction on general principles, germination, seed testing, potting, layerage, bottom heat, cuttage, classes of cuttings, graftage, and theories and laws, Daniel's experiments in graftage, tree stocks and scion handling, grafting waxes and wound dressing, methods of grafting considered individually, budding methods, nursery management, and laws affecting nursery stock.

Illustrated 5 1/2 x 7 1/2 inches. 342 pages.
Cloth. Price, net, \$1.50.HORTICULTURE PUBLISHING CO.
147 Summer St., Boston, Mass.**WANTS, FOR SALE, ETC.**

Advertisements in this column one cent a word. Initials count as two words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 147 Summer St., Boston.

SITUATIONS WANTED**NURSERY SITUATION WANTED**—A foreman; wide experience in all branches of the business; expert knowledge in all forms of propagation. References. Address FOREMAN, care HORTICULTURE.**SITUATION WANTED** as Gardener Assistant, first, either inside or out. British, middle age; life experience in the business; married, no children. Thoroughly up in the routine of work and cultivation. Satisfactory references. "X. Y. Z., care of HORTICULTURE.**FOR SALE****RETAIL SEED AND FLOWER
STORE**

25 miles from Boston in city of 90,000 population. Old established concern doing a business of \$25,000 to \$40,000 a year, about one half of which is seed trade. Address "T. R., care HORTICULTURE.

FOR SALE—One 6-inch Castle Circulator complete with motor, one 6-inch Blower for forced draught; 2 1/2, 3 and 4-inch gate valves. Write if interested. CHAS. H. RICE, Bedford St., Lexington, Mass.**FLORIST'S BUSINESS FOR SALE.**

Fully equipped and doing a good retail business. On main thoroughfare, near two Cemeteries; 5c. fare from Boston. For particulars, call or write WILLIAM CHRISTIE, 39 Woodlawn Avenue, Everett, Mass.

MISCELLANEOUS**WANTED TO LEASE**, immediately, with privilege of purchase, about 12,000-15,000 feet of glass. Easy reach of Boston preferred. Particulars to EDE, Willow Street Greenhouses, West Roxbury, Mass.**THE NUT-GROWER**

The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

Subscription, \$1.00 per year**Sample Copy Free****THE NUT-GROWER****No. 2 Francis St.****WAYCROSS, GA.****In writing to Advertisers kindly mention Horticulture**

Est. 1765

Inc. 1904

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.DISPOSITION OF UNCLAIMED NUR-
SERY STOCK IMPORTATIONS.

A circular letter has been sent to collectors and officials of the Customs by Assistant Secretary Peters instructing them that unclaimed nursery stock may be sold without the certificate of an officer of the Department of Agriculture, where the collector shall find that a permit has been issued by the Department of Agriculture for the nursery stock, that foreign certificates of inspection are attached to the containers, and that the latter are plainly marked to show the general nature and quantity of the contents, the address of the exporter and of the consignee and the locality where the stock was grown. The present procedure with respect to unclaimed stock not complying with the above, that of burning under government supervision, will be continued.

PUBLICATIONS RECEIVED.

Wind and Weather. By L. H. Bailey. It is many years since we learned to look up to Dr. Bailey with wonder and admiration for his masterly literary ability and his tireless energy. "Wind and Weather," as we peruse its garnered contents brings home a still clearer perception of Dr. Bailey's rare genius. It is a selection of fragmentary verses and sweet songs full of melody and overflowing love of nature in all her moods, now brought together and published for the first time, culled from the accumulation of a quarter of a century. There are one hundred and twenty-seven of these exquisite gems. The book is published by Charles Scribner's Sons, New York, at \$1.00 the copy.

TO THE HEART OF LEISURELAND

where woods are cool, streams alluring, vacations ideal. Between New York City (with Albany and Troy the gateways) and

LAKE GEORGE, THE
ADIRONDACKS, LAKE
CHAMPLAIN, THE
NORTH AND WEST

The logical route is "THE LUXURIOUS WAY." Largest and most magnificent river steamships in the world—DAILY SERVICE.

Send for free copy of Beautiful
"Searchlight Magazine"

HUDSON NAVIGATION CO.

Pier 32, North River New York

"The Searchlight Route"

THE FLORISTS' HAIL ASSOCIATION

Is a mutual organization, insuring green house glass against hail. Both commercial and private establishments are accepted. For particulars, address

John G. Esler, Sec., Saddle River, N. J.
Insure Now.

CYPRESS GREENHOUSE STOCK**PECKY CYPRESS BENCH STOCK****HOT BED SASH**

Ask for Circular D and Prices.

THE A. T. STEARNS LUMBER COMPANY

NEPONSET, BOSTON

DREER'S "Riverton Special" Plant Tub

No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.45	\$18.00	\$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.85	7.00	58.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

Tewksbury, Mass.—During a severe thunder storm on Sunday, July 2, much damage was done to trees and to wires of street railway and telephone companies and to many houses in Tyngsboro, Dracut and Tewksbury, Mass. Three greenhouses of A. C. Tingley, florist, were badly shattered and his water tower, capacity 6000 gallons was carried 100 yards away from its site. Frank H. Farmer sustained a considerable damage to his greenhouses. Hailstones broke considerable glass for the vegetable growers in and about North and West Westford.

THE PRACTICAL BOOK

OF

Outdoor Rose Growing

by

GEORGE C. THOMAS, JR.

Elaborately Illustrated with 96 Perfect Reproductions in Full Color of All Varieties of Roses, and a Few Half-tone Plates. Octavo, Handsome Cloth Binding, in a Slip Case. \$4.00 net. Postage Extra.

We have sold many copies of this sterling book. It is one of the best of recent horticultural publications. Every rose grower should possess a copy.

Order From

Horticulture Publishing Co.

BOSTON

**NON-KINK WOVEN HOSE**

In any length (one piece) with couplings, 14c. per foot. Unequaled at the price. Remnants, shorter than 50 feet, 10c. per foot, with couplings.

HOSE VALVE—70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

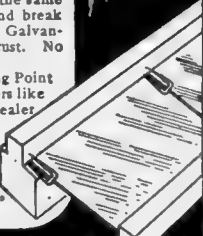
1392-1414 Metropolitan Ave., Brooklyn, N. Y.

**Dreer's Peerless
Glazing Points
For Greenhouses**

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.
Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No 2**STANDARD FLOWER
POTS**

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts., Washington, D. C.

PINO-LYPTOL

WEED KILLER

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

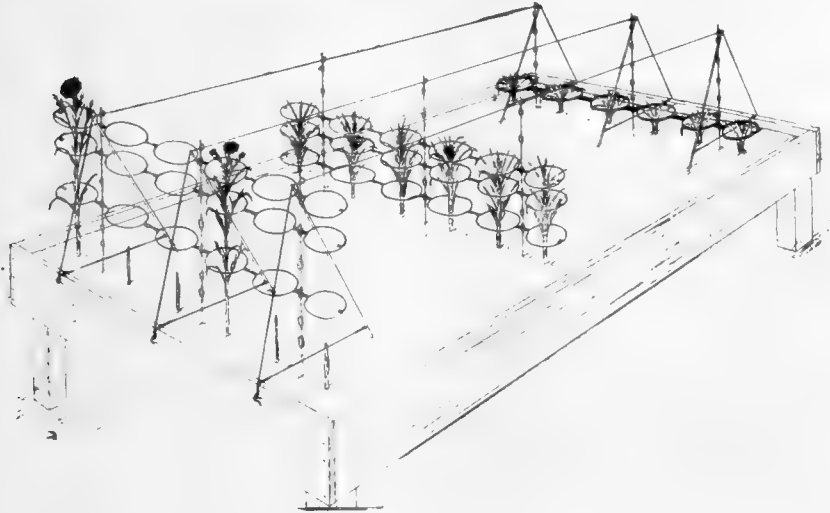
This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

P.-L. CHEMICAL CO., 507-509 W. 19th St., New York

CORRESPONDENCE SOLICITED.

A BOON FOR CARNATION GROWERS.



That carnation growers are not all satisfied with the various devices they have been using in years past for supporting their plants is quite evident from the number of inquiries received at this office regarding the continuous ring support ever since the Carnation Support Company, of Connerville, Ind., have been advertising their specialties in this paper. The accompanying cut will tell the story of the form and arrangement of this very ingenious device better than words, and a full description in detail can be obtained by writing to the company. The figure shows a small section of a fully equipped bench. Among the improvements and special features of these supports, a few are very important. They are self-tying, are adjustable to

the growing plant in height, are very artistic, give easy access to the soil without injury to the plant, pack flat when not in use, and greatest of all they are made to suit benches with any number of plants across.

GREENHOUSES BUILDING OR CONTEMPLATED.

Louisville, Ky. — H. Kleinstark, Sr., house 35 x 200.

Springfield, O. — Norman J. Shingledecker, one house.

Evans City, Pa. — Harmony Nurseries, range of houses.

Newton Falls, O. — Cleveland Cut Flower Co., house 45 x 400.

Providence, R. I. — Richard L. Hogan, 280 Eaton street, one house.

Woburn, Mass. — Gordon Fisher, Wyman street, two houses each 40 x 300.

Kewanee, Ill. — Hamilton & Plummer, rose house 50 x 150, Moninger construction.

PATENTS GRANTED.

1,185,726. Plant Protector. Starkie Norman Slade, Durham, N. C.

1,186,657. Weeding-Hoe. William H. Hammond, Clifford, Mass.

1,187,251. Land-Roller. Harry Bultman, Osgood, Ind.

1,187,397. Planting-Pot. George B. Southard, Redland, Cal.

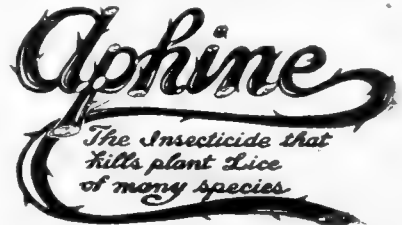
1,187,615. Hand-Weeder. Charles William Frees, Piqua, Ohio.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago



The Recognized Standard Insecticide. A spray remedy for green, black, white, fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SOA-LINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON



NIKOTEEN

For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer For It.

NICOTINE MFG. CO.
ST. LOUIS

HYPER-HUMUS

PROVEN QUALITY

Best for Greenhouse, Nursery, Lawn and Garden

Price, \$6.00 Per Ton in Bulk, F. O. B. Cars
Further Information Upon Request

COLIN CAMPBELL

30 Nassau Street, NEW YORK CITY

When writing to advertisers kindly mention HORTICULTURE.

FOLEY MATERIALS

ARE THE BEST FOR

**Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES**

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, CHICAGO, ILL.

SHARP, PARTRIDGE & CO.

Are Leaders in

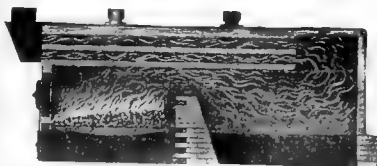
GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

KROESCHELL BOILER

SEND FOR CATALOGUE



KROESCHELL BROS. CO.
466 W. Erie St. Chicago, Ill.



EVERYTHING FOR THE GREENHOUSE
John C. Moninger Company

CHICAGO NEW YORK
922 Blackhawk St. 812 Marbridge Bldg.
CINCINNATI, 2314 Union Central Bldg.

Why not try

**ADVANCE SASH
OPERATING
DEVICE?**

It is the best on the market.

Satisfaction Guaranteed.

ADVANCE CO.
Richmond, Ind.



GLASS

**GREENHOUSE MATERIAL
HOT-BED SASHES**

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

Evans 20th Century Arm

Most up-to-date arm on the market. Proud that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.



Quality Greenhouses

At Minimum Cost

For Greenhouses of recognized merit,

For Greenhouses of proven dependability.

For Greenhouses of the very finest material and construction.

For Greenhouses which have demonstrated for over 45 years, that

**WE KNOW WHAT TO DO
AND WHAT NOT TO DO**

See Us!

S. Jacobs & Sons

Greenhouse Builders

1359-1385 Flushing Avenue
BROOKLYN, N. Y.

PATENTS

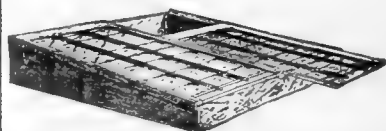
Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



HOTBED SASH at 75c. each
Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.
Double Light Sash up to \$4.00.

We carry a large stock of all sizes.
Write us for estimate.

S. JACOBS & SONS
1359-1385 Flushing Avenue BROOKLYN, N. Y.

King GREENHOUSES
SEND FOR BOOKLET
King Construction Co.
NORTH TONAWANDA N. Y.



MASTICA

For Greenhouse
Glazing
USE IT NOW

F. O. PIERCE CO.
17 W. BROADWAY
NEW YORK



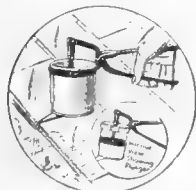
Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

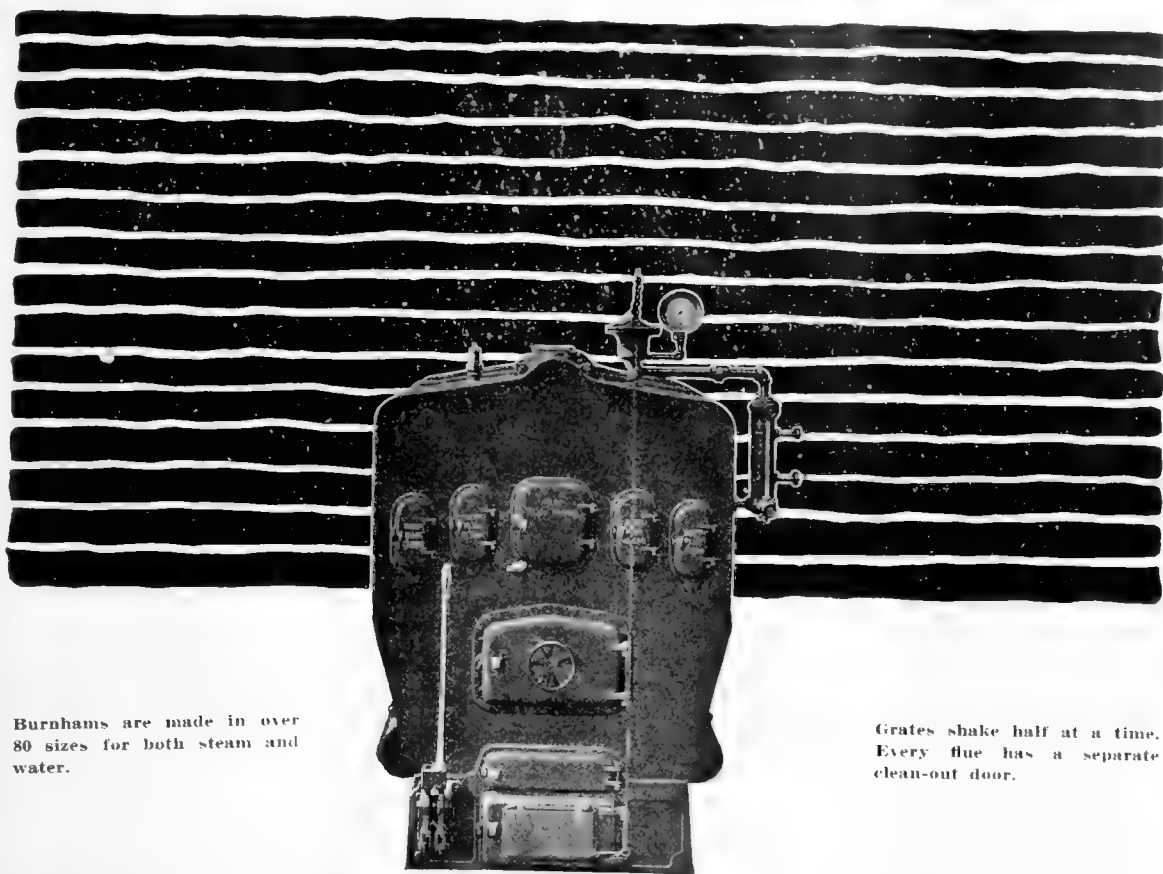
Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

Neat-tight liquid putty at \$1.25 per gallon.
METROPOLITAN MATERIAL CO.
1392-1414 Metropolitan Ave., Brooklyn, N. Y.





Burnhams are made in over 80 sizes for both steam and water.

Grates shake half at a time. Every flue has a separate clean-out door.

Marching Orders for Burnhams Should be Sent at Once

WHAT is the condition of your Boiler and Heating Apparatus?

Do you realize that freight moves very slowly these days.

For months the railroads have been refusing to ship certain things under certain conditions.

Freight that ordinarily has reached our customers in a week; has finally turned up a month later. Perhaps two months.

From the looks of things, it will be some time before shipping conditions change much.

Business of all kinds is so good, all over the country, that the roads simply haven't the cars to handle it.

To have your boiler held up in the Summer time, although mighty inconvenient; is not so serious a matter.

But when firing time comes; and your old boiler is out; or leaks like a sieve; that's the time prompt delivery of your new boiler means money to you. Money and real money.

You know just as well now, as you'll know two months from now, that you need a boiler.

Then why not send along your Burnham Marching Orders at once?

Send them now, so you will surely have your boiler by the time you actually need it.

Then there's another thing to remember; we are rushed with orders and in spite of all we can do, there will be some delays in shipments from our factory.

We urge your ordering now, not because it matters particularly to us; but that it does particularly matter to you.

Send your Burnham Marching Orders at once.

Lord & Burnham Co.

SALES OFFICES:

NEW YORK
42nd Street Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Widener Bldg.
TORONTO, CANADA, Royal Bank Bldg.

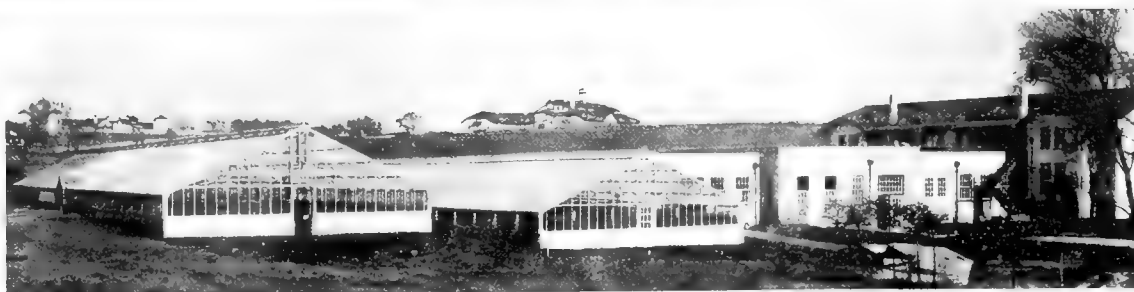
CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

CLEVELAND
Swetland Bldg.

MONTREAL, Transportation Bldg.

FACTORIES: Irvington, N. Y. Des Plaines, Ill. St. Catharines, Canada



The purely practical growing houses at Longview Farm, R. A. Long's Country place, near Kansas City.

An Interesting Example On Practical Practice

SOME 20 or 30 miles from Kansas City is R. A. Long's country place. Here he has two purely practical growing houses. Absolutely nothing fancy, just two parallel houses, each 200x38 feet. Each one is divided by glass partitions into four compartments. The construction is practically the same as our highest type of commercial houses.

Here it is that plants, flowers, vegetables and fruits are produced in large quantities; not alone for the "big house on the hill," called "Long-view," but also for the "town house" or Kansas City residence."

At the town house, they also have a palm house and general foliage plant house, both of which were erected some ten or twelve years ago.

We tell you these things because we know that many gardeners are continually up against it, to produce enough in their houses to satisfy the ever increasing demands of their employer.

All too often, we have a notion that the ornamental in greenhouse ranges is secured at the sacrifice of the practical.

That it is possible to combine both satisfactorily, we have demonstrated over and over again.

But after all is said and done, what a man builds a greenhouse for, is to produce things. That house, then, which produces the most, is most likely to be most satisfactory.

Not that we suggest making a practice of building plain, commercially constructed houses on private places; but we do believe there is a happy medium that would prove highly satisfactory.

Let's get together and talk it over. Perhaps between us, we can work out something decidedly better than has ever yet been done.

You say when and where and we'll be there.



The palm house at Mr. Long's Kansas City residence.



The plant house at Mr. Long's Kansas City residence.

Lord & Burnham Co.

SALES OFFICES:

NEW YORK
42nd Street Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Widener Bldg.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

CLEVELAND
Sweetland Bldg.

TORONTO, CANADA, Royal Bank Bldg.

MONTREAL, CANADA, Transportation Bldg.

FACTORIES: Irvington, N. Y. Des Plaines, Ill. St. Catharines, Canada.

Vol. XXIV
No. 3
JULY 15
1916

HORTICULTURE



Phot. by R. C. C. R. C.

Saxifraga cordifolia

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription, \$1.00



Boddington's Re-selected Winter-flowering Spencers as grown by Wm. Sim, Cliftondale, Mass.

Boddington's Winter-Flowering Spencer Sweet Peas

The New Sensational Australian Spencer Winter-Flowering Sweet Peas

The following varieties are, without doubt, the greatest and most valuable novelties introduced since the famous Yarra-awa Spencer marked the commencement of a new era in Winter Sweet Peas. Owing to the intense drought in Australia, the crop of this splendid Sweet Pea is very short and our stock is limited; we therefore advise early ordering, to avoid disappointment.

NOW READY FOR DELIVERY

CONCORD DAYBREAK

Cream with standard heavily edged buff-pink. As the flower opens the cream changes to almost white, and the cream-pink edging to a faint rosy tinge.

CONCORD CHARM

Combines the delicate shades of white and blue-white wings and very light heliotrope standard, shading to nearly white.

CONCORD COUNTESS

Most attractive tint of pink, the ideal flower color.

CONCORD COQUETTE

Has a white ground, faintly marked or mottled light rosy carmine, the standard showing color more heavily than the wings.

CONCORD EMPEROR

A rich crimson-red variety. One of the best and most useful varieties in this class.

CONCORD PURPLE

Delightful shade of mauve purple, changing, as the flower ages, to purple-blue.

CONCORD RADIANCE

A very striking shade of rosy magenta; this variety is one of the showiest. The color varies according to the age of the flower, but this adds to its attractiveness.

CONCORD WINSOME

Of a delightful shade of pink, tinted lavender; a most fascinating color. A specially beautiful variety.

COERULEA

A glorious Sweet Pea of the most delightful shades of delicate sky-blue, sometimes a little lighter.

RUBY

A glowing light crimson-scarlet color, blooms of good size, Spencer form, carried in threes, well placed on good wiry stems.

SALMONEA

A rich rosy salmon variety of great merit.

Prices on all the foregoing, except Concord Daybreak: Pkt. (18 seeds) 35 cts.; 5 pkts. of any one variety, \$1.50.

Yarra-awa

Bright rose pink, with light wings. Seed sown early in September will flower about December 1, and bloom profusely and continuously until May. They are borne usually in fours on extra-long, strong stems. Awarded Certificate of Merit, International Flower Show, New York, 1914, and the Pennsylvania Horticultural Society, March, 1915.

	1/4 oz.	1 oz.	1 lb.	1 lb.
Introducers re-selected stock.....	\$.60	\$2.00	\$7.00	\$24.00
California grown seed.....	.35	1.00	3.50	12.00

Popular Spencer Winter Sweet Peas of Recent Introduction

The varieties offered below are now too well-known to need much description; we classify colors to make ordering easy. All our stocks are re-selected and can be thoroughly relied upon to come true to description and color.

Pink and White

	1/4 oz.	1 oz.	1 lb.	1 lb.
Christmas Pink Orchid. Standard bright pink, wings white, an improvement over the Pink and White Orchid.....	\$1.00	\$3.00	\$10.00	\$35.00
Pink-and-White Orchid. Similar in color to Christmas Pink, but produces a larger flower on longer stems.....	.25	.75	2.50	9.00
The Czar. Standard rose, wings white, mottled with pink; strong grower..	.25	.75	2.50	9.00

Pink and Light Pink

	1/4 oz.	1 oz.	1 lb.	1 lb.
Bohemian Girl. One of the finest pink selfs. The same shape as Mrs. A. A. Skach, but the color is darker, with light scarlet blush.....	\$.50	\$1.50	\$4.50	\$15.00
Fordhook Pink. The color is a beautiful rose-pink on white ground shading deep pink toward the edge of the standard and wings.....	1.00	3.00	10.00	35.00
Morning Star. Exceptional large flower of self pink color.....	1.00	3.00	10.00	35.00
Mrs. Jos. Mandu. Light shell pink, with extra long stem, flowers very ruffled, becoming a brighter pink the longer they are cut.....	.40	1.25	3.75	14.00
Miss Florence Roland. Light pink with salmon; fine shape and good grower.....	.50	1.50	4.50	15.00
Mrs. A. A. Skach. Beautiful, clear, bright pink. Much larger than Countess Spencer and slightly darker... ..	.35	1.00	3.50	12.00
Rose Queen. A pink of sterling merit and of most pleasing shade. Sown indoors July 25, first flowers picked October 1, continued blooming until Easter. Could not be improved upon. ....	.50	1.50	5.00	15.00
Selma Swenson. The color is clear, light, soft pink with waved petals.	1.00	3.00	10.00	35.00
Yarra-awa. Bright rose-pink. The best pink for florists. Continuous bloomer, almost always 4 flowers on a stem. Introducers re-selected stock. California grown seed.....	.60	2.00	7.00	24.00
	.35	1.00	3.50	12.00

White and Blush

	1/4 oz.	1 oz.	1 lb.	1 lb.
Bridal Veil. Pure white. In size and purity of color, one of the best....	\$.35	\$1.00	\$3.50	\$12.00
Mrs. M. Spanolin. Double; white. Black-seeded.....	.35	1.00	3.50	12.00
Venus. Standard slightly blush-pink; in winter more white.....	.50	1.50	4.50	15.00
White Orchid. Pure white; has stood the most critical tests.....	.35	1.00	3.50	12.00

Red and Rose

	1/4 oz.	1 oz.	1 lb.	1 lb.
Belgian Hero. A beautiful rose-colored variety. Handsome flower....	\$1.00	\$3.00	\$10.00	\$35.00
Fordhook Rose. A charming shade of rosy carmine. Well recommended.	1.00	3.00	10.00	35.00
Orchid Beauty. Dark rose-pink, with orange blush.....	.25	.75	2.50	9.00
Red Orchid. Bright cherry red, very fine shape, large and free bloomer. ....	.35	1.00	3.50	12.00
Sensation Scarlet. Early, very productive and throws three to four flowers in stems. Bright scarlet... ..	1.00	3.00	10.00	35.00

Apricot and Orange

	1/4 oz.	1 oz.	1 lb.	1 lb.
Apricot Orchid. Mostly apricot self. A cross between Miriam Beaver and Mrs. A. A. Skach.....	\$.60	\$1.50	\$4.50	\$15.00
Orange Orchid. Standard orange, wings dark salmon-pink, beautifully colored and formed.....	.60	1.50	4.50	15.00

Lavender and Blue

	1/4 oz.	1 oz.	1 lb.	1 lb.
Anita Wehrmann. A beautiful shade of lavender; large flowers, long stems, very prolific and well fixed.	\$1.00	\$3.00		
E. Burke. The flowers are large, borne usually in fours on long strong stems; very early and fixed. We recommend this as the best lavender winter-flowering Spencer to date. Trade pkt. (25 seeds) 50c....	2.50	6.00		
Mrs. John M. Barker. The standard is lilac, with glistening dark rose, wings light blue on white ground. ....	.50	1.50	4.50	15.00

New crop seeds ready for delivery in late July and early in Aug.

Any other variety not in above list can be supplied.

ARTHUR T. BODDINGTON CO., Inc., 128 Chambers St., New York City

GERANIUMS

Alphonse Ricard, Beaute Pottevine, S. A. Nutt, Gen'l Grant, Mad. Buchner, Mad. Recamier, Jean Oberlee, Abbie Schaefer, Mad. Landry, La Favorite, Jean Vland and other good kinds, in good 3-in. stock at \$3.00 per 100, \$25.00 per 1000; 2 in. at \$2.00 per 100. We have a large stock on hand for immediate shipment and are booking orders for next season.

Boston Ferns, 4-in., \$15.00 per 100; 7-in., \$6.00 per doz.

	2-in.	2-in.	3-in.	3-in.		2-in.	2-in.	3-in.	3-in.
	100	1000	100	1000		100	1000	100	1000
ALYSSUM, Dwarf and Giant.....	\$2.00	\$18.50	\$3.00	\$25.00	PARLOR IVY, S. Scandens.....	\$2.00	\$18.50	\$3.00	\$25.00
COLEUS, ten varieties.....	2.00	18.50	3.00	25.00	POMPON CHRYSANTHEMUMS ..	2.00	18.50	3.00	25.00
CUPHEA PLATYCENTRA	2.00	18.50	3.00	25.00	SALVIA, Bonfire and Zurich.....	2.00	18.50	3.00	25.00
LEMON VERBENAS, six varieties.	2.00	18.50	3.00	25.00	SWAINSONA, White.....	2.00	18.50	3.00	25.00
MOONVINES	2.00	18.50	3.00	25.00					

CELERY, White Plume, Giant Pascal and Golden Heart \$1.00 per 1000; 10,000 and over 85c. per 1000.
 PARSLEY, Dwarf Fern leaf, 25c. for 100; \$1.25 per 1000.
 CABBAGE, \$1.00 per 1000; 10,000 and over 85c. per 1000.

CASH WITH ORDER.

R. VINCENT, Jr., & SONS CO.,

**WHITE MARSH,
MD.**

LILY OF THE VALLEY PIPS

Danish and German Stock
Booking Orders now for
1916 Crop

LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
 FOR 1916 CROP

CHAS. SCHWAKE & CO., Inc.

Valley

GERMAN, SWEDISH
 AND DUTCH PIPS

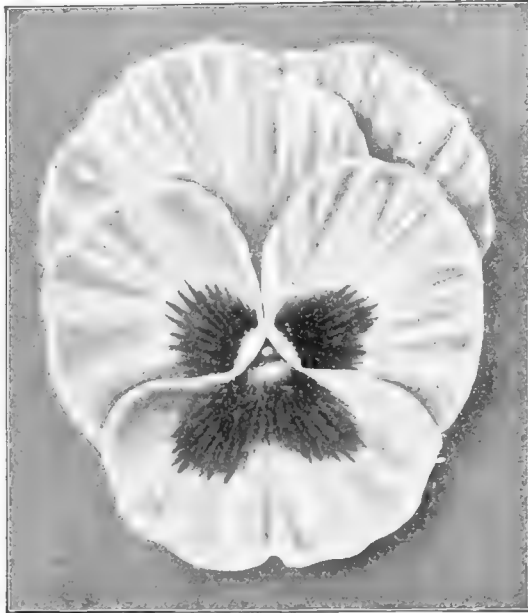
90-92 West Broadway, New York

LIST OF ADVERTISERS

	Page		Page		Page		Page				
Advance Co.....	95	Cowee, W. J.....	81	Guttman & Ray- nor	86	McHutchison & Co.....	70	Pierce Co., F. O.	95	Small, J. H. & Sons	80
Albany Cut Flower Ex.....	86	Craig, Robt. Co.	69	Hail Association.	94	McManus, Jas....	86	Pierson, A. N....	70	Smith, Elmer D. & Co.....	70
Allen, J. K.....	87	Crawback, Geo. W. Co.....	87	Hart, Geo. B.....	86	McConnell, Alex.	82	Pierson, F. R....	69	Smith, P. J.....	86
Anderson, S. A...	83	Dards	82	Henderson, A. & Co.....	79	MacNiff Horticul- tural Co.....	69	Pino-Lyptol Co.	93	Smith & Fetters.	83
Anglin & Walsh.	70	Davenport, A. M.	68	Hentz & Nash...	86	Marshall, W. E. & Co.....	79	Poehlmann Bros. Co.....	84	Smith, W. & T. Nursery Co....	69
Aphine Mfg. Co.	93	Dreer, H. A....	94-95	Hess & Swoboda.	83	Metropolitan Ma- terial Co.....	94-95	Randall's Flower Shop	82	Smyth, Wm. J...	83
Badgley & Bishop, Inc.	86	Dorner, F. & Sons Co.....	70	Hews, A. H. & Co.....	94	Michell, H. F. Co.....	79	Reed & Keller...	84	Stearns, A. T. Lumber Co....	60
Barrows & Son..	68	Dunlop, John H..	83	Hill, E. G. Co....	81	Michigan Cut Flower Ex....	84	Roid, Edw.....	84	Stumpp, G. E. M.	82
Bayersdorfer, H. & Co.....	81	Dysart, Robt... 87	Eastern Chemical Co.....	93	Hill, D. Nursery Co.....	69	Millang, Chas... 86	Reuter's 83	Riedel & Meyer.. 86	Thorburn, J. M. & Co.....	79
Bay State Nur- series	69	Edwards Folding Box Co.....	84	Hitchings & Co.. 96	Holland Nurser- ies	69	Millang, Frank.. 87	Robinson, H. M. & Co.....	87	Totty, Chas. H.. 68	
Bobbink & At- kins	69	Elliott Auction Co.....	70	Holm & Olson... 82	Hudson Naviga- tion Co.....	94	Moninger, J. C. Co.....	95	Robinson, H. M. Co.....	86	Traendly & Schenck 86
Boddington, A. T.	66	Elliott, W. H.... 69	Ernest, W. H.... 94	Hudson Naviga- tion Co.....	94	Murray, Samuel. 82	Niessen, Leo Co. 84	Rochrs, J. Co.... 68	Roland, Thomas. 82	United Cut Flower Co.....	87
Bolgiano & Son.. 79	Ernest, W. H.... 94	Esler, J. G..... 94	Evans, J. A. Co.. 94	Irwin, R. J..... 79	Jacobs, S. & Sons 95	National Nur- serman 69	Nut Grower.... 91	Rolker, A. & Sons 69	Rolker, A. & Sons 69	Valentine, J. A.. 82	
Breck, J. & Sons. 79	Esler, J. G..... 94	Evans, J. A. Co.. 94	Eyres 83	Jacobs, S. & Sons 95	Kasting, W. F. Co.....	Nicotine Mfg. Co.....	Onwerker, P.... 69	Rosery, The.... 82	Rolker, A. & Sons 69	Vincent, R. Jr., & Sons Co.... 67	
Breitmeyer's, J. Sons 82	Eyres 83	Farquhar, R. & J. & Co..... 79	Foley Mfg. Co.. 95	Kasting, W. F. Co.....	Keller, J. B. Sons 82	Niessen, Leo Co. 84	Palisades Nur- series 69	Salter Bros.... 83	Rosery, The.... 82	Wants, For Sale. 91	
Budlong, J. A... 84	Farquhar, R. & J. & Co..... 79	Foley Mfg. Co.. 95	Ford, W. P.... 86	Kerr, the Florist. 83	Kervan Co..... 86	Nut Grower.... 91	Palmer, W. J. & Son 83	Schling, Max.... 82	Rosery, The.... 82	Ward, R. M. & Co.....	
Bunyard, A. T... 82	Foley Mfg. Co.. 95	Ford, W. P.... 86	Ford, M. C.... 86	Kerr, the Florist. 83	King Construc- tion Co.....	Onwerker, P.... 69	Park Floral Co.. 82	Schwake, Chas. Co.....	Salter Bros.... 83	Weber, F. C.... 82	
Burnett Bros.... 79	Ford, W. P.... 86	Ford, M. C.... 86	Frost, Chas.... 68	Kervan Co..... 86	Knoble Bros.... 83	Palisades Nur- series 69	Parshelsky Bros. 95	Schwa, Chas. & Co.....	Schling, Max.... 82	Weiss, Herman.. 87	
Burpee, W. A. & Co.....	70	Frost, Chas.... 68	Froment, H. E.. 86	King Construc- tion Co.....	Knoble Bros.... 83	Palmer, W. J. & Son 83	Pellicano, Rossi & Co.....	Sharp, Partridge & Co.....	Schwake, Chas. Co.....	Welch's 84	
Carnation Support Co.....	69	Froment, H. E.. 86	Galvin, Thos. F.. 83	Knob Co..... 94	Kramer, F. H.... 83	Penn the Florist. 83	Pennock-Meehan Co.....	Sheridan, W. F.. 86	Schwake, Chas. Co.....	Welch Bros. Co.. 84	
Carter's Tested Seeds, Inc.....	78	Galvin, Thos. F.. 83	Gasser Co., J. M. 83	Knob Co..... 94	Kroeschell Bros. 95	Parshelsky Bros. 95	Pennock-Meehan Co.....	Siebrecht, Geo. C. 86	Schwake, Chas. Co.....	Welch, Patrick.. 87	
Childs, John Lewis 68	Gasser Co., J. M. 83	Graham, Adam & Son 83	Grey, Thos. J. Co.....	Knob Co..... 94	Kuebler, W. H.. 86	Pellicano, Rossi & Co.....	Pennock-Meehan Co.....	Siebrecht, W. R. & Co.....	Schwake, Chas. Co.....	Wood Bros.... 70	
Clark's, D. Sons. 82	Graham, Adam & Son 83	Grey, Thos. J. Co.....	79	Kuebler, W. H.. 86	Lager & Hurrell. 68	Sigors & Sig- gors 95	Pennock-Meehan Co.....	Siebrecht, W. R. & Co.....	Schwake, Chas. Co.....	Woodrow & Mar- ketos 84	
Clucas, R. W.... 69	Gude Bros. Co.. 82	Gunther Bros... 87		Lager & Hurrell. 68	Lange, H. F. A.. 83	Skidelsky, S. S. & Co.....	Pennock-Meehan Co.....	Sigors & Sig- gors 95	Schwake, Chas. Co.....	Young, John & Co.....	
Coan, J. J..... 87	Gunther Bros... 87			Lange, H. F. A.. 83	Leonard Seed Co. 79	Skidelsky, S. S. & Co.....	Pennock-Meehan Co.....	Sigors & Sig- gors 95	Schwake, Chas. Co.....	Young & Nugent. 87	
Cooke, Geo. H... 82				Leonard Seed Co. 79	Loechner & Co.. 67	Skidelsky, S. S. & Co.....	Pennock-Meehan Co.....	Sigors & Sig- gors 95	Schwake, Chas. Co.....	Zinn, Julius.... 82	
				Loechner & Co.. 67				Sigors & Sig- gors 95	Schwake, Chas. Co.....	Zvolanek, Ant. C. 79	

FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 88, 89, 90, 91

New Early Flowering Giant Pansies Or Winter Blooming



An entirely new and distinct strain of Pansies. The main advantage of these new Pansies over all hitherto existing Pansies is the extreme earliness of flowering and its unusual hardiness, which enables them to withstand quite severe Winters, and to bloom right on into the Summer. Sown at the same time as other Pansies, they begin flowering the early part of March or as soon as the snow is off the ground, many times having four or five large flowers to a plant, when all other Pansies are only showing buds. The flowers are large, well formed and fragrant. They are highly recommended for Autumn planting on graves, and for very early bedding, as well as for early cut flowers.

14. **WINTER SUN.** Golden yellow with dark eye.
15. **ICE KING.** Silvery white with dark blue eye.
16. **CELESTIAL QUEEN.** Light or sky blue.
17. **CHARM OF MARCH.** Dark velvety blue.
18. **MIXED.** The above four colors with other shades and variations.

Each color separate or mixed.

500 seeds 50c., 1000 seeds \$1.00, 1/8 oz. \$2.00, 1/4 oz. \$3.75, 1 oz. \$15.00.

For list and price of other Kenilworth Pansy Seed see my ad of July 8.

FREE OFFER RAINBOW is a mixture of the most beautiful, gorgeous colors, blotched, striped, veined, margined, etc. With every \$1.00 worth of Pansy seed I will send, free, 1000 seeds of Rainbow and with other amounts in like proportion.

Chas. Frost
Kenilworth,
N. J.

BEGONIAS

	Per 100	Per 1000
Mrs. J. A. Peterson, 2 1-4-in. pots	\$25.00	\$200.00
Cincinnati, 2 1-4-in. pots	15.00	140.00
Lorraine, 2 1-4-in. pots	12.00	110.00

CYCLAMEN

Separate colors, finest strain, extra strong 3-in. pots
\$8.00 per 100, \$70.00 per 1000

JULIUS ROEHRS COMPANY

RUTHERFORD, N. J.

FERNS IN FLATS

Eight Best Varieties—200 Clumps to a Flat

\$2.00 per flat; 10 or more flats, \$1.90 each

A. M. DAVENPORT, Watertown, Mass.

OUR EXHIBIT OF GERMAN IRIS

Won **FIRST PRIZE** at the

*International Garden Club, Summer Show, Pelham Manor
June 1-4, 1916*

JOHN LEWIS CHILDS, INC.,
FLOWERFIELD L. I., N. Y.

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.

WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.

ROOSEVELTS—\$5 per 100, \$40 per 1000.

BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

CHARLES H. TOTTY
CHRYSANTHEMUMS
MADISON, N. J.

ORCHIDS

We grow and sell nothing but ORCHIDS. If you are in the market for this class of plants we respectfully solicit your inquiries and orders. Special lists on application.

LAGER & HURRELL, Summit, N. J.

HOLLAND GROWN BULBS

HYACINTHS, TULIPS, NARCISSUS, ROSE BUSHES, ETC.

Write for information about the *Mammoth Auction Sales* that we will hold during the coming Fall Season, of Holland's latest and choicest varieties

THE MacNIFF HORTICULTURAL COMPANY

52, 54 and 56 Vesey Street The Largest Horticultural Auction Rooms in the World NEW YORK CITY

REMEMBER!

If it's a Hardy Perennial or so called Old Fashion Flower worth growing, we have it in one shape and another the year round. We have the largest stock in this country, all made in America, and our prices

will average 75c. per doz., \$5.50 per 100.

Why say more here? Send for our Wholesale Price List of varieties and benefit from the opportunities this affords you. Address

PALISADES NURSERIES, Inc.

R. W. CLUCAS, Manager.

SPARKILL - - - N. Y.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY. Small, medium and large sizes supplied. Price list now ready.

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers in America.

BOX 415, DUNDEE, ILL.

F. R. PIERSON CO.

FLORISTS AND PLANTSMEN

TARRYTOWN-ON-HUDSON, - N. Y.

THE PRACTICAL BOOK

OF

Outdoor Rose Growing

by

GEORGE C. THOMAS, JR.

Elaborately Illustrated with 96 Perfect Reproductions in Full Color of All Varieties of Roses, and a Few Half-tone Plates. Octavo, Handsome Cloth Binding, in a Slip Case. \$4.00 net. Postage Extra.

We have sold many copies of this sterling book. It is one of the best of recent horticultural publications. Every rose grower should possess a copy.

Order From

Horticulture Publishing Co.

BOSTON

NOW IS THE TIME

To Fill up your empty benches with

Asparagus Plumosus Nanus

SEND FOR PRICES

W. H. ELLIOTT,

BRIGHTON, MASS.

TREES

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties.

Sturdy, choice stock that can be depended upon. Send for catalog and special trade prices.

The Bay State Nurseries

North Abington
Mass.

SHRUBS

This New England soil and climate produces fine sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate.

ROSES

NEW YORK STATE TWO YEAR FIELDGROWN, FALL DELIVERY

POLYANTHAS: Rose Orleans, Cutbush, Jessie; Climbing: Excelsa, Tausendschoen, Perkins, White Dorothy, Crimson Rambler, Gardenia, American Pillar; H. P. Magna Charta, Laing, etc.; H. T. Testout, Teplitz, Killarney, Beauty, Kaiserin. Address

AUGUST RÖLKER & SONS, 51 Barclay Street **NEW YORK**
or P. O. Box 752

YOUNG ROSE STOCK

GRAFTED AND OWN ROOT

W. H. ELLIOTT, - - Brighton, Mass.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

HATBORO, PA.

BOBBINK & ATKINS

Nurserymen, Florists
and Planters

RUTHERFORD, NEW JERSEY

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St. Weehawken Heights
P. O. No 1, Hoboken N. J.

In Stock ROSE STAKES

EXTRA STIFF No. 9 GALV. WIRE.

4 feet—\$11.90 per 1000.

CARNATION SUPPORTS

\$18.00 per 1000 plants.

THE CARNATION SUPPORT CO., Connerville, Ind.



BURPEE'S EARLY OR WINTER-FLOWERING SPENCERS

The House of Burpee has long been recognized as "American Headquarters for Sweet Peas," and our introduction of these Fordhook Strains of Winter Flowering Spencers marks an era in commercial Sweet Pea growing.

The Novelties offered below, excepting Yarrowa, are the results of crosses made at our Fordhook Farms during the past seven seasons. All stocks are grown at our Floradale Farm, "The California Home of Sweet Peas."

Fordhook Pink and White: A most popular Winter Flowering Spencer. A color that is always in demand, similar to the old Blanch Ferry. Bright rosy pink standard, wings almost pure white. The immense flowers measure 2½ inches in diameter and are perfect in form. A very early, free and continuous bloomer, awarded a Certificate of Merit at the Spring Show of the Pennsylvania Horticultural Society, Philadelphia, March, 1915, and the American Sweet Pea Society, San Francisco, June, 1916. ¼ oz., \$1.25; ½ oz., \$2.00; oz., \$3.50.

Fordhook Pink:—This is a distinct shade of pink suffused with lavender throughout. Flowers are large size, exquisitely waved, produced in threes and fours on long stems. ¼ oz., 40c.; ½ oz., 75c.; oz., \$1.25; ¼ lb., \$3.50; ½ lb., \$6.25; lb., \$12.50.

Fordhook Rose:—Introduced by us in 1915. Flowers of largest size usually borne in threes and fours. A charming shade of rosy carmine. Awarded a Certificate of Merit at the International Show, New York, March 1915, and the Spring Show of the Pennsylvania Horticultural Society, Philadelphia, March 1915. ¼ oz., 50c.; ½ oz., 85c.; oz., \$1.50; ¼ lb., \$4.00; ½ lb., \$7.50; lb., \$15.00.

Yarrowa:—This magnificent Australian variety has proved its unusual merit with commercial growers in all parts of the country. It has an exceptional reputation as a sure-money-maker. First exhibited by us at the great International Show in New York, March 1914, and awarded a Certificate of Merit by the Pennsylvania Horticultural Society, March 1915. Flowers exquisitely waved, averaging 2½ inches in diameter, many of them being duplex or double. A bright rose pink with a clear creamy base. ¼ oz., 55c.; ½ oz., 60c.; oz., \$1.00; ¼ lb., \$2.75; ½ lb., \$5.00; 1 lb., \$10.00.

Our Special Leaflet on Winter Flowering Sweet Peas free on application.

W. ATLEE BURPEE & CO.

Seed Growers

BURPEE BUILDINGS

PHILADELPHIA

LILY BULBS

Fall Shipment from Japan

Prices quoted F.O.B. New York, Chicago, Denver, San Francisco and London (Ont.)

Write for quotations stating quantity, variety and size required.

McHUTCHISON & CO. The Import House
95 Chambers St., New York

OLDEST AUCTION HOUSE IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co.
42 Vesey St., New York

CHRYSANTHEMUMS

From 2½-in. Pots

Thanksgiving Queen, Unaka, Dolly Dimple, Elise Papworth, Intensity, Golden Dome, John Shrimpton, Lynnwood Hall, Patty, Yellow Eaton, Unaka.

\$4.00 per 100, \$30.00 per 1000.

Autumn Glory, Ada Spaulding, Cullingfordii, Dr. Enguehard, Early Snow, Golden Glow, Geo. Kalb, Glory of the Pacific, H. W. Rieman, Money Maker, Maud Dean, Monrovia, Mrs. J. Jones, Miss Alice Byron, Mrs. Baer, Major Bonnaffon, Polly Rose, Pacific Supreme, Robt. Halliday, Smith's Advance, White Bonnaffon, W. H. Lincoln and Timothy Eaton.

\$3.00 per 100, \$25.00 per 1000.

WOOD BROS., FISHKILL, N. Y.

GARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ELMER D. SMITH & CO. CHRYSANTHEMUMS

Ask for Catalogue

ADRIAN, - - - MICH.

A. N. Pierson, Inc.
CROMWELL, CONN.

Bedding Plants and Roses

ANGLIN & WALSH CO.

Williamsbridge, N. Y.

Send for Monthly Plant Bulletin

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Achimenes

When the soil becomes filled with roots they will stand a good supply of water and would be greatly benefited by a weekly application of liquid manure. Keep these plants nicely staked so as to have in good form before the buds start to open. When the flower buds are fully formed and just before they begin to open they can be moved to a cooler and airy house that is well shaded. Be careful not to submit them to too great a change at first, but gradually inure them. They will do better here at this stage than if kept in warmer quarters where they are bound to make a drawn and spindly growth. When they are through blooming place them by themselves in a moderately warm house where they will have plenty of light and air and gradually withhold water at the roots.

Asparagus Sprengeri

These plants always do better planted in solid beds. Give them a very rich compost, a foot deep. Equal parts of turfy loam and cow manure will not be a bit too rich, as they are very greedy feeders. It can also be grown in suspended baskets or in a narrow bench running along the front or the rear of a well-lighted house. A soil that will grow roses will be all right for it but you can make it richer. It will do finely in a temperature of about 55 degrees at night, or a little higher with plenty of moisture at its roots. They can be set from 15 to 18 inches apart between the plants.

Housing Carnations

The first thing to do is to shade the house with some material that will come off easily in about ten days. Give the houses a thorough cleaning and make provision for whitewashing the inside of all benches as lime is a germ destroyer and also helps to preserve the wood. All good growers consider from now and up until the middle of August the best time to house carnations. Any time later means a loss in the crop of flowers. When lifting the plants from the field, remove them as quickly as possible to some place protected from sun and wind. If you have plenty of plants select only the best and most shapely for benching. Make a hole just large enough to hold the roots nicely and bear in mind it is always better to set the plants a little higher than they were in the field, or the stems are liable to rot.

Next Week:—Antirrhinums; Beds of Adiantum; Chrysanthemums; Orchids; Rambler Roses; Reminders.

Lorraine Begonias

Shade just enough to keep the foliage from burning. A heavy shade only tends to keep them too soft. Give them a look over two or three times a day so none will be left in a dry state, and avoid careless watering at all times. If at all potbound don't wait a time to shift, but do not shift unless you are positive that the plants are in need of it. The main thing is to give a porous soil. We are using loam and leaf mold mixed with about one-fifth of well rotted cow manure for the present shifting and this with plenty of drainage in the pots seems to suit the plants nicely. Don't overlook keeping the flowers and buds removed. Growth is what you want now and not flowers. If the plants are free from green fly, as good a way as any to keep them so is to apply weekly a light spraying of a nicotine solution.

Mignonette for Winter

Where it is possible, give mignonette a solid bench, but where this is not possible they should have at least from 10 to 12 inches of soil to grow on. They should stand about 12 inches apart each way. The best way is to draw lines lengthwise and crosswise and the seed can be sown where the lines meet, using four to six seed at each junction. Make the compost rich as they require lots of plant food. The best soil is that taken from an old pasture last fall and piled up over the winter. To two loads of this use one load of cow manure and a good sprinkling of bone meal and turn this over two or three times so they will be well mixed. When the benches are filled make the surface nice and fine for the seed. Cover the seed lightly and water with a fine rose until the soil around the seed is well moistened.

Reminders

Keep the soil well stirred between all growing crops. Keep all the surplus shoots regularly removed from chrysanthemums.

Let the young smilax climb now where they have thickened out at the bottom.

Keep the atmosphere in all houses moist by several dampings daily during this month and next.

Buy some pansy seed and sow now, also some of the "tufted pansies," *Viola cornuta*. They are extremely floriferous.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached
by this paper is THE SORT OF PUBLICITY
THAT PAYS.

HORTICULTURE

VOL. XXIV

JULY 15, 1916

NO. 3

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 147 Summer Street, Boston, Mass.

Telephone, Oxford 292.
 WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.
 Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Saxifraga cordifolia	
NOTES ON CULTURE OF FLORISTS' STOCK— Achimenes—Asparagus Sprengeri—Housing Carnations—Lorraine Begonias—Mignonette for Winter— Reminders—John J. M. Farrell.....	71
ROSE GROWING UNDER GLASS—Drying off Old Plants—Care After Planting—Staking Grafted Plants— Arthur C. Ruzicka.....	73
SAXIFRAGA III—Richard Rothe.....	73
THE EXHIBITIONS—Massachusetts Horticultural Society's Sweet Pea Show—New Bedford (Mass.) Rose Show—Cleveland Industrial Fair—Sweet Pea Show at San Francisco. Illustration.....	74
NEWS FROM THE CONVENTION CITY—Houston Convention Entertainment—Texas Welcome for Secretary Young—Chicago to Houston—Dreer's Aquatic Pool. Illustration.....	75
CLUBS AND SOCIETIES—Florists' Club of Philadelphia—American Association of Nurserymen—Lake-wood Garden Club—That New Peony Society, A. H. Fewkes—Club and Society Notes.....	76
CALIFORNIA WILD FLOWERS—Morris M. Rathbun—Illustrated.....	77
DURING RECESS—Florists' Club of Washington—Pittsburg Florists' and Gardeners' Club.....	78
Greek American Florists' Association.....	80-81
SEED TRADE—One Week's Imports—Chicago.....	78
NEWS ITEMS FROM EVERYWHERE: New York, St. Louis, Pittsburgh, Boston, Washington.....	80-81
Chicago.....	87
OF INTEREST TO RETAIL FLORISTS: New Flower Stores.....	82
Flowers by Telegraph.....	83
FLOWER MARKET REPORTS: Boston Chicago, Philadelphia, Pittsburgh, St. Louis, Washington.....	85
THE PEONY—B. F. Farr.....	92
OBITUARY—George E. Morris—A. E. Simonds—William Tricker.....	92
MISCELLANEOUS: A Great Lily.....	77
Mt. Desert National Park.....	77
Catalogues Received.....	78
Early Closing is Possible.....	85
Personal—New Corporations.....	87
Visitors' Register.....	93
Cutting Gladiolus Spikes.....	93
A Useful Book.....	93
Business Troubles.....	94
News Notes.....	94
Greenhouses Building or Contemplated.....	94
Destructive Storms.....	94

as a general rule, unusual susceptibility to fungous attacks is to be expected from these prevalent conditions which not only favor the propagation and spread of all fungous forms but also make the plant tissues soft and an easy prey to these insidious attacks. One cannot be too vigilant in watching for the first traces of the many mildews, blights, molds, and rots to which plants are variously subject nor too early in the field with the sprays and other applications which, as the experienced cultivator knows, are vastly more efficient when applied early and then followed up persistently than when brought into use only after trouble has got a start. Delays are dangerous.

Rose gardens coming

We have heard from a number of places where municipal rose gardens are being established this year or are being planned. It is

only a question of time—and that not very long—until a rose garden will be regarded as an indispensable feature of every public park, and private estates generally will follow suit. Until the advent of the hardy hybrid teas and everblooming polyanthas there was little inducement for the making of rose gardens in the northern and eastern United States. Now, there is abundant recompense for all the labor and attention incident to the proper planting and care of the Queen of Flowers and with prospects as they now appear the garden rose industry is only in its infancy in this country. In the effort to improve and add to the number of forcing roses American rosarians have been in the past concentrating all their thought on a single ideal and, no doubt, hundreds of seedlings have been thrown away because they failed to measure up to the forcing rose standard, which, had they been given an opportunity to qualify would have proved invaluable as garden varieties. With the rapidly developing demand for the latter comes a new incentive to rose hybridizing in this country and we shall be surprised and disappointed if American grown varieties do not in the very near future outstrip and outclass for garden use the foreign productions upon which we have hitherto been so largely dependent.

Publicity

At their recent meeting in Milwaukee the American Nurserymen passed the following resolution, introduced by W. H.

Wyman:

Resolved: That the incoming president be directed to appoint a Committee on Publicity, to consist of seven members, selected from seven sections of the United States, to which shall be committed the various propositions and discussions presented at this convention relating to obtaining better and larger markets for our products; and that the executive committee be requested to provide such funds as are practicable for the support of this work; this Publicity Committee to report to our next convention a practicable plan for co-operative publicity.

Gradually, by slow stages but none the less surely, the horticultural interests in this country are falling into the line of progress in keeping with the policy of representative commercial institutions generally in recent years. Individual advertising is, of course, an indispensable adjunct of modern trading, but apart from this and quite as essential for the direct development and expansion of any special industry as well as the ultimate individual prosperity of everyone engaged in such business is the broader educational publicity campaign which only an organized representative agency can effectually carry out. Our societies and associations will in time require a lot of money for this use, for there is a limit to the measure of volunteer service by men capable for such work.

Preparedness

It is well for every grower to watch-fully consider the ultimate effect of this unusually wet and cold season on his plants. Field or garden crops of any kind must necessarily be affected to a greater or less extent and

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur R. Zich

Drying Off Old Plants

Now that business has slackened up no time should be lost in finishing up the planting, and if the plants in the benches are to be run all over again they should be allowed to dry off at once. Gradually withhold the water until the soil is very dry and the plants are beginning to lose their leaves. The plants can then be pruned, carefully lifted out of the old soil and planted in where they are to grow for the coming season. If they are to remain right in the old bench, in the old soil, see that all the loose soil is removed from the top and a good dressing of bonemeal applied, after which a mulch of half manure and half soil can be applied, and the plants started again. Roses should never be pruned while they are wet, neither should they be cut back, as our experience has been that they will not do nearly as well as they would if they were properly dried off and started again.

Care After Planting

As soon as a bench of the old plants is finished, see that they receive a real good watering. With certain soils it will be necessary to go over the benches twice in order to make sure that the soil is wet all the way through. If the soil happens to be rather dry it will be better to water the bench lightly several hours before planting time. This will not only make it much easier to plant but will be much better for the plants, more so if the day is bright and the sun very hot. Firm the soil well around the roots so that there will be no air spaces and the plants will be able to take up water and start right off. Care should be taken to give the plants plenty of water and keep them sprayed five or six times a day until they start. Needless to say they should not be soaking wet all the time but they should not be allowed to dry out as much as they would be if they had started. On cloudy days two or three sprayings will suffice and if the plants are planted in a house with a lot of young stock in full leaf one spraying in the morning will have to do. As soon as they start, give water only when needed and restrict the syringing to a quick syringe on clear mornings. Make sure that the plants are not too dry when syringing as the new leaves are very tender and will burn easily. If only about four inches of soil is used and it is of a porous nature and the old plants are quite bushy, it will be as well to start right in and water the whole bench instead of watering right around the plants as is done with young stock and with old plants under certain conditions. Make sure that the surface of the benches is left rough enough after planting to insure proper distribution of water. If all the lumps are crushed too fine the water is likely to run all over the bench, soaking the soil too much in some places and leaving it almost dry elsewhere. As soon as time permits, the old plants that were replanted should be staked and tied. This will make all the new wood grow in the right direction and save much time in tying later on. Plants that are grown right in the same benches will not have to be cut away from the old stakes or wires and can be retied whenever necessary. In stringing the plants to wires be careful not to tie the slip knot too

tight, for the wood will swell to twice the thickness before the season is half over and if tied very tight now it will choke the plants later on.

Staking Grafted Plants

As soon as time permits, stake all grafted plants, as it will be impossible to syringe them properly if they are allowed to lie around loose. They break very easily, so there is nothing to be gained by having them lie around. If care was used in planting, the plants will be away down on the bottom of the bench so that the union of the graft and stock will be below the level of the soil. Put the stake quite close to the plants, and tie them straight to it, gently but firmly and without any twisting, for this would surely damage the union and the graft would take a long time to come to, if it should happen that it did not break off altogether. Make sure to get all the stakes on the same side of the plant, and as straight as possible. It may be a little difficult at first but as soon as a person gets accustomed to the work it will come easy, then the finished job will look like something. Tie all stakes securely with good cord so that there will be no danger of their getting loose when syringing later on and sliding this way or that, which is very annoying to say the least.

Saxifraga III

(See Cover Illustration)

Some of the robust growing species of saxifragas have even a wider scope of general usefulness than the Alpine classes treated in the previous notes. Their large evergreen foliage of substantial, almost leathery, texture is decidedly ornamental. Preferring rather moist situations they prove excellent subjects for shore plantings of brook, pond and pool, thriving equally well in partial shade as in the open sun. The best known saxifragas in American gardens are those of the Megasea type described in European standard works under Megasea or Bergenia. In bloom from early in April until May, their large pink panicles add a desirable diversity of floral forms and colors during the opening days of a new season. At that time the human mind is most appreciative: our eyes joyfully accept the early harbingers of spring in the garden even in comparatively modest array. I believe the saxifragas under consideration in this note merit more space on our hardy herbaceous borders than they have been given. Our illustration showing a specimen plant of the well-known *Saxifraga cordifolia* is calculated to demonstrate its effectiveness in the rock garden. The species orbiculare, speciosa, squarrosa and van Houttei in addition are not only useful but simply indispensable, especially for large rock gardens with water-course and pool. Our native *Saxifraga peltata* with handsome pink flowers may be naturalized along water lines in park landscapes or established in moist sections of the wild flower garden where it requires little or no care.

In conclusion I wish to call attention to the less conspicuous but nevertheless interesting *Saxifraga sarmentosa* and the shade-loving *S. umbrosa* for occasional employment. With the exception of *sarmentosa*, which is not hardy in the north, plantations survive our winters without injury. In order to retain the perfection of the evergreen foliage I prefer to give plants a light covering in December. Propagation is by divisions, cuttings and sowings; *Saxifraga sarmentosa* also by runners.

Richard Rothe

Glenside, Pa.

THE EXHIBITIONS

MASSACHUSETTS HORTICULTURAL SOCIETY'S SWEET PEA SHOW.

The annual exhibition of sweet peas at Boston was held on Saturday and Sunday, July 8-9, the entries comfortably filling the large hall in Horticultural Building. The show suffered from a lack of elevation and greenery the flowers being shown in small vases in monotonous array, without foliage, the long white covered tables and light colored walls contributing to the characterless effect. As for the sweet peas themselves they were very fine and there were lots of them in every conceivable color, and for the purpose of comparison and inspection of varieties it was unquestionably a good show. Some central feature arranged high for effect and a few side groups in the way of plants and greenery for a setting would have added greatly to the impressiveness of the exhibition.

List of Awards.

Twenty-five sprays, any white variety: 1st, Mrs. Robert Winthrop, Constance Hinton; 2nd, Edwin Jenkins, Edna May Improved, Crimson or Scarlet. 1st, Edwin Jenkins, Sunproof, Crimson; 2nd, Mrs. Robert Winthrop, Scarlet Emperor, Carmine; 1st, Mrs. Robt. Winthrop, Rosabelle; 2nd, Edwin Jenkins, George Herbert. Yellow: 1st, A. N. Cooley, Mrs. Dameron; 2nd, Mrs. W. G. Weld, Mrs. Dameron. Blue: 1st, Mrs. Robert Winthrop, Blue Monarch; 2nd, Edwin Jenkins, Blue Monarch. Blush: 1st, Mrs. Robert Winthrop, Lady Evelyn Eyre; 2nd, Stuart Duncan, Agricola. Deep Pink: 1st, Mrs. Robert Winthrop, Hercules; 2nd, Edwin Jenkins, Hercules. Cream Pink: 1st, Stuart Duncan, Mrs. Hugh Dickson; 2nd, Stuart Duncan, Miriam Beaver. Orange: 1st, Mrs. Robert Winthrop, May Unwin; 2nd, A. N. Cooley, May Unwin. Lavender: 1st, Stuart Duncan, Orchid; 2nd, Edwin Jenkins, Don Alvar. Purple: 1st, Mrs. Robert Winthrop, Royal Purple; 2nd, Stuart Duncan, Royal Purple. Maroon: 1st, Stuart Duncan, John Ridd; 2nd, Mrs. Robert Winthrop, King Manoel. Picotee edged: 1st, Mrs. Robert Winthrop, Jean Ireland; 2nd, A. N. Cooley, Dobbie's Blue Picotee. Striped or Flakes Red or Rose: 1st, Edwin Jenkins, Jessie Cuthbertson; 2nd, Mrs. Robert Winthrop, Jessie Cuthbertson. Striped or Flaked Blue or Purple: 1st, Mrs. Robert Winthrop, Bertha Usher; 2nd, A. N. Cooley, Bertha Usher. Bicolor, other than Picotee-edged: 1st, Mrs. Robert Winthrop, Mrs. Cuthbertson; 2nd, A. N. Cooley, Mrs. Cuthbertson.

Iris Kaempferi.—Collection or not less than six varieties, filling twenty five vases: 1st, A. J. Jenkins.

In the classes for amateurs only, the varieties which won in the various colors were as follows:

White—Edna May and Constance Hinton. Pink—Hercules and Miriam Beaver. Dark Pink—George Herbert. Lavender—R. F. Felton and Florence Nightingale. Salmon—Barbara and Salmon Pink. Crimson—Sunproof of Crimson. Primrose—Dobbie's Cream and Floradale Fairy. Scarlet—The President and Fiery Cross. Any other color—King Manoel and Royal Purple.

In addition to the competitive entries there were large entries of sweet peas from A. J. Jenkins, Mrs. W. G. Weld, Thomas Burrows, Margaret J. Miller, Geo. E. Barnard and others which were recognized by gratuities. Similar attention was given to a collection of roses from A. W. Preston, *Trachelium caeruleum* from Oliver Ames and a collection of herbaceous flowers from Blue Hill Nur-

COMING EXHIBITIONS.

July 20, Worcester, Mass.—Sweet Pea Exhibition, Worcester Horticultural Society.

August 24-25, Lewiston, (Me.) Annual Flower Show, Gardeners Union, Lewiston City Hall.

July 26-27, Southampton, N. Y.—Tenth Annual Flower Show, Southampton Horticultural Society.

August 3, Oyster Bay, L. I., N. Y.—Dahlia Show, Oyster Bay Horticultural Society.

August 11-12-13, Boston.—American Gladiolus Society, Horticultural Hall.

August 24, Worcester, Mass.—Gladiolus Exhibition.

Sept. 2-9, Cleveland, Ohio.—Industrial Exhibition and Fair.

Syracuse, N. Y., Sept. 11-16.—New York State Fair.

Sept. 12-13, Providence, R. I.—Rhode Island Horticultural Society, Narragansett Hotel.

Sept. 11-16, Syracuse, N. Y.—Seventy-Sixth Annual New York State Fair.

series. A splendid collection of sweet peas from S. W. Carlquist won for him the exceptional honor of a silver medal.

A special exhibit of Japanese Iris will be given at Horticultural Hall, Boston, on Saturday, July 15, from 12 to 5 o'clock. A large display of these wonderful blooms will be made by Allen Jenkins, gardener to Dr. and Mrs. Homer Gage, of Shrewsbury, Mass. Mrs. Gage for a number of years has been much interested in the culture of these flowers and has probably the largest collection in the country. There will be also on exhibition a collection of seasonable fruits, postponed from last week on account of the backwardness of the season. The exhibition is free to the public.

WM. P. RICH, Sec'y.

NEW BEDFORD (MASS.) ROSE SHOW.

The 1916 rose show of the New Bedford Horticultural Society was held in the basement of the Free Public Library on Thursday afternoon and evening, July 6. It was unusually fine and was admired by a large number of visitors. As usual, from the Converse Gardens, at Marion, came a notable array of roses and a splendid

display of about 300 blooms came also from the gardens of Sarah B. Fay. The exhibition from the Fay gardens was not for competition and was up to the usual high standard of excellence.

Miss Alice Stackpole, from her Matapoisett place, sent a general exhibition of roses that showed excellence both in care and selection. Andrew J. Fish exhibited for the first time a new seedling climbing rose of the single variety which he has named Purity. He was awarded a first-class certificate. The display of climbing roses shown by Mr. Fish was especially beautiful; and the Silver Moon rose display of Mrs. E. E. Baudoin has had nothing to excel it in any of the exhibitions of the society. There were fine displays of hardy perennials from a number of exhibitors. Wm. Keith got a special award for exceptional sweet williams and the Tripp cup for irises was won by Dr. G. de N. Hough. L. J. Hathaway, Jr., Mrs. H. A. Jahn, Howard Stockton of E. Wareham, J. S. Fiqueredo and W. K. Smith figured among the prize winners.

CLEVELAND INDUSTRIAL FAIR.

Preliminary work is being pushed energetically in the Flower Show section of this big event which is in charge of M. A. Vinson who managed the successful exhibition in that city last year. Posters have been distributed with special literature to the florist trade in and about Cleveland, showing a diagram of spaces in Tent F, 180 x 90 ft. area, which will be reserved entirely for horticultural displays. This section will be in charge of a committee of the Cleveland Florists' Club, as follows:

Timothy Smith, retail florist, chairman; Frank A. Friedley, commercial grower; H. P. Knoble, retail florist; Chris. B. Wilhelm, retail florist; E. A. Bause, superintendent J. W. Corrigan estate, Wickliffe, O.; O. P. Blackman, superintendent W. S. Tyler estate, Rocky River, O.; Geo. Jacques, superintendent Wm. G. Mather estate, Bratenahl, O.; Robert Weeks, superintendent A. F. Holden estate, Bratenahl, O.

SWEET PEA SHOW AT SAN FRANCISCO.



Exhibit of the L. D. Waller Seed Co., of Guadalupe, Calif.

NEWS FROM THE CONVENTION CITY

HOUSTON CONVENTION ENTERTAINMENT.

The local executive committee for the S. A. F. convention is composed of the following:

R. C. Kerr, Houston, chairman; Henry Greve, Dallas; L. J. Tackett, Forth Worth; Louis Oesch, Dallas; F. W. Hensel, College Station; T. J. Wolfe, Waco; J. E. McAdam, Fort Worth; H. O. Hannah, Sherman; Bird Forrest, Waxahachie; Chris Houser, San Antonio; E. E. Stone, Dickinson.

The entertainment plans for the visiting members have just about been completed, and will show that we have outlined a program that will keep the members on the go pretty much all the time except when they are attending to business. We propose to show at this convention the hospitality that is always displayed at such conventions in the South. With the number of important matters that are to come up that are of vital interest to this society, and with a very interesting entertainment program, we hope the Houston Convention will go down in history as the most enjoyable in the history of the society. This is our aim. We believe that the florists of the country realize this, and as indications show, we feel that our success from the standpoint of attendance and exhibits and of important business that is to be transacted, the members will turn out in full force.

The following is a general outline as to what we expect to give the visiting delegates:

A trip down the ship channel to the San Jacinto Battle Grounds. Barbecue and other refreshments to be served on the grounds, and a program of sports will be prepared to entertain the visitors. We also will make a trip to Galveston, take a dip in the surf and dinner at the Hotel Galvez afterwards. Also a band concert at the Convention Garden. Will have a special moving picture that will be of interest to the S. A. F. members. The usual automobile ride over the city will not be overlooked in Houston. We have possibly more paved streets, beautiful homes and more beautiful suburbs than any other city of its size in the country. We are just completing a boulevard ten miles long, which is unsurpassed by any city of its size in the country. There are other side attractions that will make our entertainment worth while.

R. C. KERR, Vice-Pres. S. A. F.

TEXAS WELCOME FOR SECRETARY YOUNG.

Plans have been completed for a dinner in Dallas on the evening of July 17, honoring John Young on his visit

to Texas. Mr. Young comes a little ahead of time to complete arrangements for the convention in Houston. After a day or so in Dallas, Secretary Young, Vice-President Kerr and others will visit a number of the cities in the State by automobile, provided the weather permits. They expect to work in the interest of the Society while on this trip. Indications are that Mr. Young will be given a rousing reception on his visit to Dallas, and while this is a north Texas meeting it is anticipated that a number of florists from other parts of the State will visit Dallas for this occasion.

CHICAGO TO HOUSTON.

The going trip on the occasion of the annual convention of the Society of American Florists, to be held at Houston, Tex., August 15-17, will be one of the pleasant features, as it will convert an ordinarily tedious journey into a most enjoyable one. The route takes us through highly scenic and picturesque country. Occupying our own special cars we leave Chicago via the Wabash Midnight Banner Express at 11.55 P. M., Sunday, August 13, and arrive in St. Louis at 7.40 Monday morning. The party will have breakfast here, enjoying the well-known Harvey service. Members from other points will join us in St. Louis, and our special cars will be attached to the Iron Mountain Texas Limited, leaving at nine o'clock. A short distance from St. Louis we pass the United States recruiting station, Jefferson Barracks, which will be of especial interest at this time. For a distance of 22 miles we skirt the shores of the Mississippi. Continuing our journey we soon arrive at the heart of the Ozark Mountains, Little Rock

and Benton, Ark. In close proximity is the famous pleasure resort, Hot Springs. At 11.30 that evening we enter the great state of Texas at Texarkana, which takes its name from Texas and Arkansas. At this point one may be sitting in Arkansas, and by crossing the aisle of the car can be in Texas. The night and following forenoon are spent in a direct southerly path through Texas via Palestine and Trinity to Houston, where we arrive at two o'clock that afternoon in time for the opening of the convention. One can readily perceive the social advantages and the added pleasure afforded in making this trip together through this most interesting section of our country, and many have already expressed their intention of being with the party. You are cordially invited to join us.

The fare from Chicago to Houston is \$30.21. The charges for Pullman sleepers from Chicago are as follows: Double lower berth, \$6.75; upper berth, \$5.40; drawing room, \$24.

Circle Tours.

One can purchase a circle tour ticket which permits going to Galveston (with a stop at Houston), boat from there to New York, a seven day cruise on the Mallory Line, including one-day's stop over at Key West, and return to Chicago via Niagara Falls and Detroit; or via Philadelphia and Washington. One can also take the Atlantic Line from New Orleans direct to New York, a five-day trip, and from New York as above mentioned. Cost of either of these tours is but \$80. Meals and berth on boat are included.

For further details, Pullman reservations, and other particulars, address H. L. Purdy, care of Wabash Railway Co., 808 Edison Building, Chicago. Telephone, Harrison 4500.

MICHAEL BARKER.

Chairman Transportation Committee, Chicago Florists' Club.



DREER'S AQUATIC POOL.

In Convention Garden, Houston, Texas.

CLUBS AND SOCIETIES

FLORISTS' CLUB OF PHILADELPHIA.

For a mid-July meeting and a hot night Dr. Washburn has reason to feel proud of the good audience that turned out to meet him at the regular monthly meeting held on the 11th inst. He gave us a splendid talk on how the National Farm School is making: "good florists, gardeners and farmers out of the submerged tenth" of the great cities. What particularly delighted the audience was the common sense views that Dr. Washburn expressed—so rare with the average professor. The doctor's remarks were so sane, wise and sensible and so unusual—coming from an academical rather than a practical source. Usually a professor from a college who appears before us is listened to with easy tolerance—and that smile on the faces of the men who know forty times more than he does—but Dr. Washburn has the rare distinction of being able to make a trade meeting of experienced horticulturists "sit up and take notice." And we have to take our hats off to Dr. Krauskoff and his little coterie of Jews who founded the school and were clever enough to find a non-sectarian scientist and a New England college graduate to take charge of the practical work—even if he was a Yankee and not a Jew. We are informed that the school has broadened and is now non-sectarian—open to all who can qualify—Jew or Gentile. The Florists' Club of Philadelphia the representative trade body of this city certainly did itself great credit in inviting a man who has done so much in an untried field as Dr. Washburn to speak before them and the doctor most ably acquitted himself. He has promised us a copy of his address as soon as he can work one of the Burpee stenographers without charge and we hope to publish it in *HORTICULTURE* in the near future. One of the first principles of the National Farm School near Burpee's Fordhook Farms is to get everything for nothing. They never pay for anything. (The "Kelly Street Business Men's Association" will please take notice of this.) The essay committee of the Florists' Club of which Charles E. Meehan and J. Otto Thilow are members are plumbing themselves a little on getting Dr. Washburn as their star for July, but the credit really belongs to Howard M. Earl of Burpee's, who is a brother peach farmer with the doctor—and both threaten to die millionaires in the near future—unless the peach blight strikes Bucks County, Pa.

The August meeting of the Florists' Club of Philadelphia (First Tuesday in August) will be especially interesting, the subject arranged for being "New Ideas in Piping and Heating" and an expert on this subject, Cornelius F. Roland of the National Tube Co., will address the club and illustrate his remarks with motion picture views. Every member will be interested in this up-to-the-minute ex-

position and should make sure that no summer vacation idea prevents him from being present.

GEORGE C. WATSON.

AMERICAN ASSOCIATION OF NURSERYMEN.

The Convention at Milwaukee was an unqualified success. Much business was transacted along the lines of the new policies. The executive committee was authorized to organize a credit, collecting and reporting bureau for the benefit of all the members covering wholesale and retail accounts and the reporting of delinquents and ratings of nurserymen, dealers, etc. Also to obtain through the state vice-presidents a list of all nurserymen entitled to wholesale price lists, compile same and publish, as a confidential matter, a book containing these lists and mail them, under sealed cover, a copy of same to each member. Also to continue the "Confidential Bulletin," of which three issues have already been made, and adopted same as the official organ of the association.

In consequence of the above, and because of thinking legal experience necessary, the office of secretary was merged into that of general manager, and counsel Curtis Nye Smith was chosen.

Officers were elected as follows: President, John Watson, Newark, N. Y.; vice-president, Lloyd C. Stark, Louisiana, Mo.; treasurer, Peter Youngers, Geneva, Neb.; executive committee, same as last year except that J. B. Pilkington succeeds himself and E. S. Welch was appointed on the executive committee also.

The 42nd convention will be at Philadelphia, Pa., in 1917.

The Women's Auxiliary of the American Association of Nurserymen was organized at Milwaukee with officers as follows: President, Mrs. E. S. Welch, Shenandoah, Ia.; vice-president, Mrs. W. C. Reed, Vincennes, Ind.; recording secretary, Mrs. E. R. Taylor, Topeka, Kan.; corresponding secretary, Mrs. Fred Watson, Topeka, Kan.; treasurer, Mrs. L. L. May, St. Paul.

LAKEWOOD GARDEN CLUB.

This new garden club has been formed in Cleveland, Ohio, through the efforts of M. A. Vinson, who is the active manager of the Industrial Exposition and Fair to be held in that city, September 2 to 9, one of the features of which will be a big early fall flower show under canvass. Mr. Vinson discovered that the big residential suburb of Cleveland, which joins the park where the exposition is to be held, did not have a Women's Garden Club and as he saw the need for one, in order to create a greater interest for the Flower Show, he started immediately to lay plans for the organization. This was six weeks ago. The announcement was made in the Cleveland Plain Dealer of July 7th, giving the names of the officers, stat-

ing that a club with a membership of fifty had been organized.

Due credit is given by Mr. Vinson for the assistance received from Mrs. L. Dean Holden, Mrs. A. L. Ingles, who are members of the Cleveland Garden Club, and Mrs. J. H. Rogers, of the Shaker Heights Garden Club in assisting in conducting the first meeting.

Floor plans of the Flower Show Section can be obtained by addressing the show manager at 1393 West 25th street, Cleveland. Premium lists are now in the hands of the printer and will be ready for mailing in the near future.

THAT NEW PEONY SOCIETY.

Editor *HORTICULTURE*,

Dear Sir: I notice in the July 8th issue of *HORTICULTURE* the note by Mr. Harrison in regard to the organization of a northwest peony society, and also your excellent editorial on the same.

While it is not entirely a surprise to me, the knowledge of actual organization causes me to feel considerable regret, for it seems to me the promoters have been somewhat hasty in their action and from the tone of Mr. Harrison's remarks I gather that there is a bit of ill feeling in the matter, which if true is certainly very unfortunate, for the east has nothing but the best of feeling for the northwest.

Mr. Harrison evidently forgets that the matter of exhibitions, while forming a large part of the activities of the American Peony Society, is not its whole end and aim and the hard work and expense that have been put into the nomenclature studies have produced results which are worth many times the amounts that have been paid in the way of dues, not only to the members of the society but to every admirer of the peony, whether a member or not.

This work has been done by eastern men who have given freely of their time and the expense has been paid mostly with eastern money.

The membership west of Chicago is exceedingly small and it is hardly reasonable to expect eastern members to vote to meet in Minneapolis when one stops to consider that at least a week of the busiest season of the year, would be consumed in going and returning, not including the two days at the meeting. And then again it is no farther east than it is west, Mr. Harrison being about the only peony man from that region who has favored the eastern meetings with his presence.

But all this aside there is no doubt that there is a great need of a local organization in that region to extend the knowledge of the peony, but I can see no call for a Fourth of July independence proclamation for the thing could be accomplished in a much more sensible way. If it was simply a matter of exhibitions and competing for prizes, an independent organization would be the logical thing. But there are the important matters of

registration and recognition of new varieties which can not be done effectively only through a national organization.

These with various other considerations would lead one to advocate some such idea as you put forth in your editorial, and it would seem the more feasible as the by-laws of the society provide for sectional vice-presidents, who, when the need arose could look after the interests of their respective sections.

This is the first time that the necessity for such appointment has arisen and it would seem only fair that advantage should be taken of it, for the benefits would be mutual and instead of two independent societies, often working at cross purposes, there would be two affiliated organizations working along the same lines.

A. H. FEWKES.

Newton Highlands, Mass.

CLUB AND SOCIETY NOTES.

The St. Louis Retail Florists' Association meets Monday, July 17, at Mission Inn Garden.

The St. Louis County Growers' Association held a meeting at the Eleven Mile House last Wednesday, at which some interesting discussions took place. It was decided to hold the annual picnic next month, the date and place having not as yet been named.

A GREAT LILY.

On Wednesday, July 12, the members of the Horticultural Club of Boston and others visited, by invitation, the field of *Lilium myrophyllum* (regale) now blooming at the Roslindale Nurseries of R. & J. Farquhar & Co. It was certainly a sight such as has never been seen in this country, rivaling in beauty and impressiveness the famed lily fields of Bermuda and Japan. Here are a quarter of a million bulbs, and a very conservative estimate of the number of flowers that smiled a welcome to the visitors is a round million.

This superb lily, which is one of the best "finds" of E. H. Wilson in his Chinese travels, has all the qualities to make it in time the leading lily for florists' use. Being absolutely hardy, and producing seed freely, bulbs can be raised in any quantity in practically any part of the United States. The pink flush on the buds and the golden tint in the heart of the flower are unique qualities and the fragrance is very pleasant. Another good trait is that the pollen does not shed and stain the petals as in other lilies, so that with this lily the florist, at Easter time, will escape the troublesome job of picking the stamens from flowers as they open.

Mr. John Farquhar gave a dinner to the visitors. The trip was by automobile, through the parkway and calling on Jackson Dawson whose health has been very poor of late.

Bridgeport, Conn.—Carl C. Reck of John Reck & Son, florists, left with the Shriners last Sunday for Buffalo. Mr. Reck will leave the party at Buffalo, branching off from the main tour, and will take in the lake section, stopping at Detroit, Duluth, etc., crossing into Canada.

CALIFORNIA WILD FLOWERS.

By Morris M. Rathbun.

Lovers of wild flower life in Southern California at last have realized one of their fondest dreams—a wild flower garden near the heart of Los Angeles. The first blooms have come to the plants in nearly five acres of Exposition Park, one of the newest in the city's breathing spots, and thousands have made the acquaintance of rare blossoms heretofore accessible only after long trips into the hills in all parts of the state.

The wild flower garden idea was born some years ago, when the park was acquired by the city. One of the most enthusiastic workers in obtaining the land was Frank Wiggins, secretary of the Los Angeles Chamber of Commerce. For years he had sought the money to carry out one of his pet ideas for the park—a wild garden of sufficient size to contain every variety of native plant life in the state. His idea was heartily endorsed by Theo-

Classes from the public schools and colleges are in attendance every hour of the day, Saturday and Sunday afternoons are given over to receptions to the children. A thoroughly posted attendant is placed in charge, who explains to the children the characteristics of the different flowers.

One of the first inquiries of visitors from other cities is concerning the cost. Labor, cultivating, equipment including sprinkler system, plants and incidentals are given as less than eight thousand dollars. The verdict is unanimous that as an attraction and educational feature in a land of flowers, the wild garden is worth many times its cost.

MT. DESERT NATIONAL PARK.

President Wilson, by official proclamation, on July 11, created a new national playground of 5000 acres. The Sieur de Monts National Monument, on Mt. Desert Island, Me., a territory of



View in the Los Angeles Wild Flower Garden.

dore Payne, a florist who is credited with a wide knowledge of the uncultivated flowers of California.

But little headway was made until two years ago, when the county supervisors appropriated nearly half a million dollars for "beautifying and entertainment purposes during 1915," this being California expositions' year. A part of this fund became available and last year, prior to the beginning of the winter rains, two hundred and thirty varieties of wild flowers, shrubs and trees were planted.

The work of planning, preparing and planting was under the direction of Mr. Payne, and it was literally a labor of love. He believes that California's wild flowers cannot be matched anywhere for beauty and variety. The desert, valleys, woodlands and mountains were searched for superior specimens. Journeys aggregating thousands of miles would have to be taken to view what here are gathered in five acres.

In the late spring nearly every blooming variety was in flower, making a sight dazzling to the nature lover. The garden proved of strong attraction not only to sight seers but

majestic beauty. The proclamation was recommended by Secretary of the to students of horticulture and botany. Interior Lane. The acceptance of the Mt. Desert Island tract follows a tender of the tract to the government several weeks ago by George B. Dorr, representing the Hancock county trustees of public reservations.

The new national park embraces more than 5000 acres of rugged mountain land directly south of Bar Harbor, its northern boundary lying within a mile of that famous resort. Touching the Schoonerhead road on the east, approaching within a mile of Seal Harbor on the south and being less than that distance northeast of Northeast Harbor. It is surrounded on all sides by extensive summer colonies.

The Sieur de Monts National Park includes four lakes and no less than 10 small mountains. The lakes are Jordon pond, Eagle lake, Bubble pond, and Sargent Mountain pond.

Mr. Dorr, who is proprietor of the Mt. Desert Nurseries, has worked for years on this project and has expended much time and money to preserve and beautify the tract which now becomes public property forever.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending June 30, 1916, were recorded as follows:

Bulbs—Netherlands, \$61; England, \$10.

Plants—Italy, \$18; England, \$15; Costa Rica, \$16; Guatemala, \$112; Mexico, \$100; Netherlands, \$110.

Red Clover Seed—France, \$5,940; Italy, \$6.

Clover Seed—England, \$7,862.

Grass seed—Ireland, \$146.

Other seeds—France, \$3,744; Italy, \$39; Netherlands, \$106; England, \$10,430; British India, \$4,575; British East Indies, \$3,012; Hongkong, \$234; Dutch Guiana, \$3.

Nitrate of soda—Chile, \$72,479.

Other fertilizers—Mexico, \$639.

Chicago.

D. D. P. Roy, of Chicago, will open a branch seed store at Lake Forest, Ill., August 1st.

W. A. Sutherland of Philadelphia, no longer represents the Leonard Seed Co., in any way. Customers in the east, will be looked after by his successor, whose name will be announced in this paper soon, and who will call upon the trade.

The Leonard Seed Co. has reached the inventory stage of the year's work, as what is considered the duller month of the year is here. President Leonard of the Leonard Seed Co., calls it "fishing season," and will start for the lakes of Wisconsin in a few days. Those who know him best know that the three large places owned by the company in that state will have more attention than the fish at first, but after inspecting the growing crops Mr. Leonard expects to relax and take a needed rest. The company has in all twelve places. The new Leonard's sweet corn, which he introduced three years ago in a limited way, is proving most satisfactory. It is a cross between Country Gentleman and Stowell's Evergreen, of narrow grain and earlier, and packers get a higher price for it in the cans. It is too early now to tell the exact condition of the pea crop. Onion sets are not far enough along to enable one to speak positively, but indications are that the crop will be short.

CATALOGUES RECEIVED.

J. P. Campbell, Jacksonville, Fla.—"Campbell Irrigation." Illustrated catalogue of automatic sprinkler system and outfit.

C. C. Morse & Co. Illustrated Price List of Morse's Early-Flowering Long-Season Spencer Sweet Peas, 1916 crop. Fine portraits of Early Morning Star, Early Song Bird, Early Melody, Early Spring Maid, Early Snow Flake and Early Heather Bell.

John Waterer Sons & Crisp, Bagshot, Surrey, England.—Hardy Plants for 1916. This is a very complete catalogue of the plants offered from the hardy plant nurseries at Turyford, Berks. There are many handsome full-page illustrations. Catalogue of Roses from the same company. This is also a very complete and interesting list, including two pages of new and rare varieties. Other catalogues also received from Messrs. Waterer & Crisp are Autumn and Spring Planting Bulbs, Fruit Trees, etc.; Seeds for Vegetable and Flower Garden; Rhododendrons, Hardy Ornamental Trees and Shrubs. The seed catalogue gives an immense amount of cultural information in tabulated form and is well illustrated. The catalogue of hardy rhododendrons, conifers, etc., as everyone knows, covers one of the best-known specialties of the Waterers.

R. & J. Farquhar & Co., Boston.—Catalogue of New and Rare Plants. This is a publication of very unusual character. So far as we know nothing like it has ever been published in this country. It is devoted entirely to hardy ornamental trees and shrubs and includes many of the most desirable of the Arnold Arboretum novelties which have been described in the Arboretum bulletins and elsewhere from time to time but have not been obtainable commercially. This is especially true of the numerous new trees and shrubs collected in China by E. H. Wilson for the Arboretum. Requests for these plants are constantly made to the Arboretum by persons who see or hear of them and have been unable to find them in any American commercial nursery. At the suggestion of Professor Sargent, Messrs. Farquhar have been engaged for several years in the propagation of these new comers. It was a big undertaking and costly and Messrs. Farquhar have merited the gratitude of all friends of advanced American horticulture.

Alexander Dickson & Sons, Ltd., Newtonards, Ireland, at the recent annual trials of new roses at Bagatelle, near Paris, were awarded the gold medal for the best new rose, the variety being Mrs. Wemyss Quinn.

DURING RECESS.

Florists' Club of Washington .
ENLIST! ENLIST!

Men, women and children, for the big Florists' Family Frolic at Great Falls, Va., Wednesday, July 19. Special trains from 36th and M streets at 2, 2.15 and 2.30 P. M. Bring the folks for a "blooming" good time. Tickets 50 cents. This ticket and the identification tag includes everything and a dip in the Falls. Get yours early as the number is limited to 300. \$100 in prizes. Special prizes for the ladies and the kiddies.

This will be some outing and then some. Fireworks at 8 o'clock P. M. It will not be necessary to walk pigeon-toed when the band plays a pigeon walk.

General Committee: Wm. Ernest, Chairman; Geo. Shaffer, Harry Lewis, O. A. C. Oehmler, A. Schnell, Fm. Marche, Edw. Schmid, Geo. Cooke.

Committee: Wm. Ernest, Chairman Humepatopcharox; Geo. Shaffer, Chairman Arrangements; Geo. Cooke, Chairman African Golf; Wm. Marche, Chairman Currency; Harry Lewis, Chairman Medical and Hospital; Wm. F. Gude, Chairman Preparedness; Edw. Schmid, Chairman Prizes and Chickens; G. Milton Thomas, Chairman Sports; J. J. Barry, Chairman Lost Children; J. Richards, Chairman Refreshments and Ham Inspector; A. Schnell, Chairman Arguments and Disputes; A. Gude, Chairman Mephisto and Fireworks; Dave Bissett, Chairman Lecturer and Guide over Falls.

Pittsburgh Florists' & Gardeners' Club.

The Pittsburgh Florists' & Gardeners' Club have arranged for a field day at Sewickley, Wednesday, July 19. Trains leave Union Station at 9.20 A. M., and Federal street at 9.25 A. M., city time. George Wessenauer and his committee will meet this train at Sewickley and arrange for the transportation to the Sewickley Heights territory and provide for a noonday luncheon to all members of the club that notify him by Monday, July 17. The Sewickley members of the club are anxious to show the boys all the places in that district that can be visited in the short time allotted.

Send your card at once to George Wessenauer, Sewickley, Pa., so that he may provide well for all.

Yours truly,

T. P. LANGHANS, Sec. Pro Tem.

On Thursday, July 6th, the Knoxville Florists' Society held its Third Annual Picnic at Elkmont, a mountain summer resort about seventy miles from Knoxville. A special train carried the party. There was a ball game and other sports and a very enjoyable day was passed by the members and their families.

The Brooklyn Botanic Garden Leaflet (12 pages) dated June 28, 1916, is devoted to a most interesting illustrated paper on "Variation, Environment and the Laws of Heredity," by Orland E. White. The Leaflets are published weekly or bi-weekly, from April to June, and September to October, inclusive, by the Brooklyn (N. Y.) Institute of Arts and Sciences. Current numbers are free to all who wish them; back numbers 5c each.

"Seeds with a Lineage" All Varieties

Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

MICHELL'S GIANT PRIZE PANSY SEED

NEW CROP

GIANT EXHIBITION MIXED. A Giant Strain which for size of bloom, heavy texture and varied colors and shades cannot be surpassed. Half trade pkt., 30c.; 50c. per tr. pkt.; per 1/2 oz., 75c.; \$5.00 per oz.

	Tr. Pkt.	Oz.
Giant Prize-Azure Blue....	.40	\$1.75
Giant Prize Black Blue....	.40	1.75
Giant Prize Emperor William, Blue .....	.40	1.75
Giant Prize Hortensia Red .....	.40	2.00
Giant Prize King of the Blacks .....	.40	1.75
Giant Prize Lord Beaconsfield, Purple Violet....	.40	1.75
Giant Prize Peacock, Blue, Claret and White .....	.40	2.50
Giant Prize Snow Queen, Pure White .....	.40	1.75
Giant Prize Striped and Mottled .....	.40	1.75
Giant Prize White with Eye .....	.40	1.75
Giant Prize Pure Yellow....	.40	1.75
Giant Prize Yellow with Eye .....	.40	1.75

Also all other seasonable seeds and supplies. Send for Wholesale Catalogue and Price List.

HENRY F. MICHELL CO.

Flower Seed Specialists

518 Market St., Philadelphia, Pa.

Thorburn's BULBS AND SEEDS For FLORISTS

Write for Quotations

J. M. THORBURN & CO.,
53 Barclay St., New York

POINSETTIAS

July and August Shipment

True type, fine 2½ inch plants, shipped in paper pots, \$6.00 per 100, \$50.00 per 1000.

A. HENDERSON & CO.

211 N. State St. CHICAGO, ILL.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

When writing to advertisers kindly mention **HORTICULTURE**.

SPECIAL OFFER TO THE TRADE ONLY OF GERMAN IRISES

in the following choice named varieties:

ASIATICUS. S. violet-blue; F. deep purple-blue.

BOCCAGE. S. soft lavender; F. maroon and veined maroon on a white ground.

BRONZE BEAUTY. S. sulphury-bronze; F. claret shading to light lavender, orange beard.

COMTE DE ST. CLAIR. S. pale blue; F. deep violet, striped and margined white.

EDITH. S. porcelain-blue; F. veined dark blue on a white ground;

ELIZABETH. S. pale blue, passing to grey; F. soft lilac-blue.

FLORENTINA PURPUREA. S. violet; F. purple.

FLORENTINA ALBA. (Queen Emma.) S. and F. soft shade of grey.

GARRICK. S. pale lavender; F. deep lavender.

GRACCHUS. S. pure yellow; F. crimson reticulated white.

HONORABLE. S. golden yellow; F. rich mahogany-brown.

INNOCENZA. S. ivory-white; F. white, striped maroon at base; beard golden.

JOHAN DE WITT. (Spectabilis.) S. light lilac-blue; F. purple.

KING EDWARD VII. (Plumeri.) S. soft rosy-lilac; F. crimson.

MADAME CHEREAU. S. and F. white, frilled azure blue.

MISS MAGGIE. (Hermoine.) S. silvery-lavender; F. suffused soft rose.

MORPHEUS. S. French grey; F. reticulated royal purple on a white ground.

MRS. H. DARWIN. S. pure white; F. white, reticulated violet at base.

PANCHREA. S. bronze; F. white, striped crimson.

PRESIDENT CARNOT. S. light blue; F. deep violet.

SAMBUCINA BEETHOVEN. S. rosy-lilac; F. purple with orange crest.

SPARTA. S. bronze-yellow; F. maroon margined old gold.

VAN GEERTH. S. bronze shaded lavender; F. very dark purple, veined white.

In the descriptions (S) is used to signify standards; (F) falls.

Prices of all the above varieties \$6.00 per 100; \$50.00 per 1000. September Delivery. **PALIDA DALMATICA**—the finest pale blue iris of the Germanica group. Price, \$12.00 per 100; \$100.00 per 1000. September delivery.

R. & J. FARQUHAR & CO., Boston, Mass.

LEONARD'S SEEDS and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

MIGNONETTE

IMPROVED ECLIPSE.

Superior to all others for winter blooming, exhibition, or cutting. Immense fragrant spikes 10 to 15 inches long. Greenhouse grown seed from a re-selected strain. Pkt. 25c., 1/16 oz. \$1.00. Catalogue upon application.

THOMAS J. GREY CO., Seedsmen

29 So. Market St., Boston, Mass.

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries

166 W. 23rd St., NEW YORK

LILY BULBS

RALPH M. WARD & CO.

71 MURRAY ST., NEW YORK

My new Price List of

WINTER-ORCHID-FLOWERING SWEET PEA SEED

Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

KEYSTONE SNAPDRAGON

Best Winter flowering Pink Snapdragon on the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.

PHILADELPHIA, PA.

LILIUM GIGANTEUM COLD STORAGE

Extra Selected Stock. Gladiolus for forcing. Nansu, Colvill or large flowering type. Greenhouse Fertilizers. Ask for 1916 Seed Catalogue.

Joseph Breck & Sons Corp., Seedmen
47-49 No. Market St., BOSTON, MASS.

CANNAS, 3 Inch Pots

In the very best varieties—
\$3.00 per 100—\$25.00
per 1000

ROMAN J. IRWIN

108 W. 28th St., New York.

When writing to advertisers kindly mention **HORTICULTURE**.

J. H. SMALL & SONS

FLORISTS NEW YORK and WASHINGTON

Announce the removal of their New York store to

505 MADISON AVENUE, AT 52d STREET

WASHINGTON, D. C.
15th and H Streets

Floral and Landscape Work

NEW YORK—Waldorf-Astoria
and 505 Madison Ave.

NEWS ITEMS FROM EVERYWHERE

NEW YORK.

George Hildenbrand, of John Young & Co., has been on the Federal jury for the past three weeks.

It is reported that the joint flower show meeting held at Hotel Manhattan was very harmonious. Organization was completed and dates, etc., arranged for. Secretary John Young was authorized to make public details of the meeting later.

S. A. F. Secretary John Young started for the Convention City on Friday, July 14, going to Dallas, Texas, where he will meet Vice-President Kerr and other Texas florists and will then tour the state with these gentlemen in automobiles in the interest of the society.

J. P. Lewis has been added to the New York Florists' Club's Transportation Committee and will soon issue a circular letter as to rates, etc., for the trip to Houston. It looks now as if quite a number will take advantage

of the boat trip to New Orleans—then all rail to Houston.

The weather is very hot, stock plentiful and no demand. An unusual attraction in the market at present is a fine lot of the new *Lilium myriophyllum* or regal lily, being shipped to John Young & Co., by R. & J. Farquhar & Co., of Boston. These lilies are much admired and will undoubtedly take their place among other suitable flowers for summer use.

ST. LOUIS.

Andon Bourdet, Peter Phaender, Ed. Buechel, W. S. Wells, A. Senger, all well known in trade circles, are off on their summer vacations.

The florists' picnic takes place at Romona park, Thursday, July 20. Everybody is invited. The Florists' Club pays all expenses.

W. J. Pilcher and A. S. Cerny, of Kirkwood, and Frank Windler, W. C. Smith, Aug. Hummert and Al Senger,

all florists, have purchased new automobiles recently.

Werner Bros., of Clayton, Mo., are building two new rose houses, 32x150. Mr. A. Werner says they will have nearly 750,000 feet of glass when these are completed.

Mrs. Ben Westhus has opened a floral store at Skinker and Berlin avenues. The opening took place last week and she started in with a big day's business.

The Florist Club meeting this week, according to Secretary Beneke and President Bourdet, promises 100 in attendance. At the officers' meeting last week an interesting program was mapped out.

The St. Louis Wholesale Cut Flower Co., the new wholesale firm, has leased 1410 Pine street and will start at once to erect a building to be ready for business Sept. 1. D. S. Geddis and J. J. Beneke will manage this new wholesale market.

GREEK-AMERICAN FLORISTS



PROFITS PROFITS PROFITS

There's Money in Summer Business for the Florist Who Knows How to Please

We can supply you with strictly up-to-date accessories, which you **must** have if you want to give satisfaction. Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

1129 Arch Street, PHILADELPHIA, PA.

PITTSBURGH.

Mr. and Mrs. Gustav Ludwig expect to attend the Florists' Convention at Houston, Texas.

Mr. and Mrs. J. W. Ludwig are planning a trip to Baltimore, Trenton, New York City, Rochester and Buffalo.

Augustus Frishkorn, manager of Beckert's Seed Store, left last Monday for a trip through West Virginia in the interest of the firm.

H. P. Joslin is visiting his brother at Oxford, Mass., during which time his duties as secretary of the Florists' Club are assumed by T. P. Langhans.

Accompanied by his family, Fred Reigelmaier, of the Pittsburgh Cut Flower Co., is on a motoring trip to Atlantic City. W. T. Usinger is at Ruggles Beach, Ohio, and Samuel Capes is at Atlantic City.

BOSTON.

The Children's Museum on the shores of Jamaica Pond, Jamaica Plain, has offered prizes of \$25 in gold and silver to boys and girls under 17 years of age for collections of leaves of trees and shrubs. The conditions are liberal. They state merely that the leaves must be pressed and mounted on sheets of paper 11½ by 16½ inches. Any paper stiff enough to hold the leaves may be used and several leaves may be mounted on the same sheet. Each leaf must be labelled with name, date and place of collection, and all collections must be deposited in the museum by Sept. 10. Hundreds of New England boys and girls have announced their intention of competing for the prizes and it is expected that an unusually large number of collections will be received.

WASHINGTON.

J. Louis Loose is spending a couple of weeks with Mrs. Loose, at Berkeley

Springs, W. Va., where they are enjoying a very pleasant vacation.

Five employees of Gude Bros. Co. will go to Bisbee, Arizona, with other members of the District of Columbia National Guard. These are Edward Wilson, who is a commissary sergeant; and Privates Edward Henning, Robert Baggott, Norman Padgett and Leslie A. Dix.

George W. Hess, superintendent of the Botanical Gardens, is to have his domain largely increased if Congress follows the recommendations of the Senate Committee which has favorably reported a bill to devote to the use of the gardens what is known as East and West Seaton Parks.

Several florists were among the large number of Elks who have been in convention in Baltimore and who came to Washington to pay a fraternal visit. William F. Gude is the exalted ruler of the Elks in the District of Columbia and as such was called upon to welcome the visitors.

ASSOCIATION PICNIC.



ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

For KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for New York. Write or Phone to

MAX SCHLING

22 West 59th Street, - Adjoining Plaza Hotel

Best Florists in the States as References.
EUROPEAN ORDERS EXECUTED.
Members of the Florists' Telegraph
Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York
Telephone 1559-1558 Columbus

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

WORCESTER, MASS.

Randall's Flower Shop

HARRY L. RANDALL, Proprietor.

Member Florists Telegraph Delivery Association

Of Interest to Retail Florists

NEW FLOWER STORES.

Bluefield, W. Va.—F. A. Harman.

Ames, Ia.—Ross A. Lee, Main street.

Chelsea, Pa.—London Flower Shop, branch store.

Minneapolis, Minn.—Mr. Pangalos, 2722 Chicago Ave.

Reading, Pa.—Harry A. Byler, 36 North Ninth street.

Chicago, Ill.—Chicago Florist, 35 East Adams street.

Hampton, Ia.—C. H. Hollied, successor to Curtis Floral Co.

New York, N. Y.—Cardassis & Co., 1427 St. Nicholas avenue.

St. Louis, Mo.—Mrs. Ben Westhus, Skinker and Berlin avenues.

Burlington, Vt.—J. W. Wilson, removing to 184 Pearl street.

Chester, Pa.—Rosery Flower Shop, removing to 8 W. 7th street.

North Adams, Mass.—The Flower Box, Banks street, W. E. Cady, proprietor.

Chicago—Louis Sielsky, 6747 S. Halstead St.; K. Muszynski, 1644 W. North Ave.

WHY

Jinn The Florist ?
4 Park St., Boston, Mass.

**Because Satisfaction
Is Guaranteed**

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor.

FLOWERS BY TELEGRAPH

SAN FRANCISCO

CALIFORNIA

Pelicano, Rossi & Co.

123 KEARNY ST.

HIGH GRADE PLANTS

For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.

**JOHN BREITMEYER'S
SONS**

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUDE BROS CO
1214 F ST. N.W.
WASHINGTON DC

GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

**IN THE
National Capital**

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 306. Long Dist. Bell Phone 2780
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEWPORT, R. I.

145 Bellevue Avenue.

WE GUARANTEE SATISFACTION

MEMBER F. T. D. A.

CHICAGO

Send Your Orders to

WILLIAM J.**SMYTH**Member Florists' Telegraph
Delivery Association**Michigan Ave. at 31st Street**Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio

Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1886 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO

Flowers of, Every Kind in Season

SALTER BROS.
FLORISTS
38 Main Street, West
ROCHESTER, - N. Y.

HESS & SWOBODA
FLORISTS
Telephones 1801 and L 1832.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE125,000 Sq. Ft. of Glass
WORCESTER, MASS.**Flowers by Telegraph**

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State St.

Albany, N. Y.—The Rosery, 23 Steuben St.

Albany, N. Y.—William C. Gloeckner, 97 State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont St.

Boston—Zinn the Florist, 4 Park St.

Buffalo, N. Y.—S. A. Anderson, 440 Main St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid Ave.

Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th St.

Cleveland, O.—The Smith & Feters Co., 735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643 Broadway.

Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.

New London, Conn.—Reuter's.

Newport, R. I.—A. T. Bunyard, 145 Bellevue Ave.

New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.

New York—David Clarke's Sons, 2139-2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. corner 44th St. and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth Ave.

New York—Thos. F. Galvin, Fifth Ave., at 46th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.

Rochester, N. Y.—Salter Bros., 38 Main St., West.

San Francisco—Pellicano, Rossi & Co., 123 Kearny St.

St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.

Washington, D. C.—Gude Bros., 1214 F St.

Washington, D. C.—F. H. Kramer, 915 F St., N. W.

Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

Penn The Florist**"The Telegraph Florist"**

Member of Florists' Telegraph Delivery

124 Tremont St., BOSTON**REUTER'S** Members Florists
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

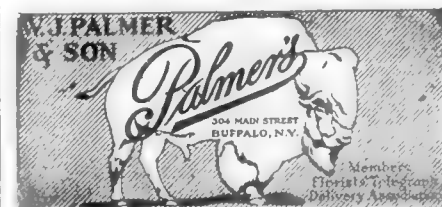
We cover the territory between

New Haven and Providence**ST. LOUIS, MO.****FRED C. WEBER**
4326-28 Olive St.Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only**THE J. M. GASSER COMPANY,****CLEVELAND**

Euclid Avenue

**The Far-Famed Flowers of
TORONTO**Delivered on mail or telegram order for
any occasion, in any part of the Dominion.**JOHN H. DUNLOP**
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design WorkDELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
106 STATE STREET, ALBANY, N. Y.

Now Is The Time To Put
In Next Season's Supply of
SPHAGNUM MOSS

Six 5 Bbl. Bales for \$10.00

This is the biggest value in Moss you can buy. Our Moss is clean and fresh and each bale is wrapped.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S
Wholesale & Commission Florists
FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

EDWARD REID
WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E.G. HILL CO.

Wholesale Florists

RICHHMOND, IND.

Please mention Horticulture when writing.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 3860 Madison Square

WOODROW & MARKETOS

WHOLESALE

Plantsmen and Florists

37 and 39 West 28th St., NEW YORK

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO.

MANUFACTURERS

PHILADELPHIA, PA.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut
Flower Market

Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

226 DEVONSHIRE ST.,
Telephone, Main 6267-6268

BOSTON, MASS.

**WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100
TO DEALERS ONLY**

	BOSTON July 13		ST. LOUIS July 10		PHILA. July 10	
Roses						
Am. Beauty, Special	15.00	to 20.00	15.00	to 25.00	20.00	to 25.00
" Fancy and Extra	10.00	to 15.00	8.00	to 10.00	10.00	to 15.00
" No. 1	1.00	to 6.00	1.00	to 5.00	2.00	to 8.00
Russell, Hadley	2.00	to 12.00	5.00	to 10.00	2.00	to 10.00
Killarney, Richmond, Hillingdon, Ward, Extra	2.00	to 4.00	5.00	to 8.00	4.00	to 8.00
" Ordinary	.50	to 2.00	3.00	to 4.00	1.00	to 3.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 6.00	.....	to	4.00	to 6.00
" Ordinary	.50	to 2.00	.....	to	1.00	to 3.00
Ophelia, Mock, Sunburst, Extra	3.00	to 5.00	5.00	to 8.00	4.00	to 8.00
" Ordinary	1.00	to 2.00	3.00	to 4.00	1.00	to 3.00
Carnations						
Fancy	.75	to 1.00	2.00	to 3.00	1.50	to 2.00
Ordinary	.35	to .50	.75	to 1.00	.50	to 1.00
Cattleyas	20.00	to 25.00	30.00	to 40.00	25.00	to 40.00
Dendrobium formosum	.....	to 25.00	.....	to .....	.....	to
Lilies	3.00	to 4.00	10.00	to 12.50	5.00	to 8.00
Lily of the Valley	4.00	to 5.00	4.00	to 5.00	4.00	to 6.00
Snape dragon	2.00	to 3.00	3.00	to 4.00	.....	to
Gladioli	2.00	to 3.00	3.00	to 4.00	2.00	to 4.00
Asters	.....	to .....	.....	to .....	.....	to
Sweet Peas	.40	to .75	.15	to .25	.20	to .50
Gardenias	20.00	to 25.00	.....	to .....	.....	to
Adiantum	.....	to 1.00	1.00	to 1.25	.75	to 1.00
Smilax	10.00	to 12.00	12.00	to 15.00	20.00	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	25.00	to 35.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co.
Wholesale Florists

383-387 ELLICOTT ST. - - - BUFFALO, N. Y.

J.A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

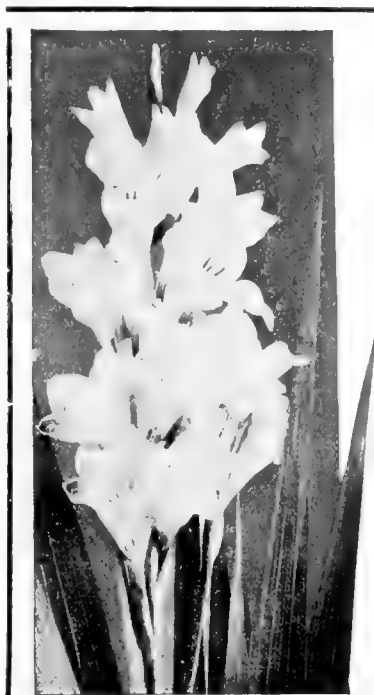
Flower Market Reports

BOSTON like all the other flower centres is doing practically nothing worth dignifying by the name of business. It should not be very long, however, before the tide will begin to turn. The belated hot weather which is now on with a vengeance will start things up at all the beach resorts and should induce flower buying. There is not much in the way of noticeable stock in sight. The sudden heat has affected everything unfavorably and the material offered is far from the standard. There is no set value on anything. The main ambition is to get a customer. Price is a secondary consideration—get all you can but make the sale at all hazards.

CHICAGO Business has fallen off greatly in the past week. Warm weather has sent many flower buyers out of the city and hurried on the out-of-doors blooms, so between them there is a marked decrease in sales. Stock is offered at very low prices to stimulate city trade and even so roses and carnations are accumulating. Were it not for shipping trade it would be much worse, but most wholesalers report out-of-town orders as coming in well for July. Early asters made their appearance this week, rather small and with short stems, but they add another flower to the already overloaded market. Among the novelties are the pink cornflowers, in light and dark shades and very pretty. Roses are causing comment by their good color and so far have retained their fresh bright color of the earlier season. Lilies the abundant. Cattleyas are much more plentiful and quality is good. All kinds of out-door flowers in season are to be had and the cold spring has kept them strong and fresh. Peonies are of the past and no one regrets it. Very low prices on almost all kinds of stock are quoted to the buyer on the spot.

PHILADELPHIA Conditions are fairly good for the season, which is not saying a whole lot. In other words, there is very little business and many more flowers both inside and outside grown than the market can absorb. Carnations have been especially plentiful and they are hard to move as their quality and keeping capacity is at low ebb and most of them might as well have been kept at home. Another conspicuous item is the outdoor gladioli from the South. They are splendid stuff, and a large proportion of that magnificent pink "America" cut with all its foliage. It is a pity to see any of those beautiful things go to waste.

PITTSBURGH Summer conditions are here after an exceptionally prosperous early season. Each day sees a fresh supply of flowers, those of the previous morning more than supplying the demand for the day. Asters are once more on the market and the supply of gladioli—of very fine quality—is daily increasing. Carnations and roses are still coming in plentifully, while lilies of the valley and sweet peas are falling off. Cattleyas of fine quality are in generous supply.



GLADIOLI

Splendid quality, long well flowered spikes, grown for cut flowers, much superior to those grown for the bulbs and cut short without foliage. Good assortment.

\$4 per 100, \$25 per 1000

CATTELYAS

\$5.00 and \$6.00 per dozen

VALLEY

\$5.00 and \$6.00 per 100

During July and August, closing time daily
5 P. M. Saturday 1 P. M.

S. S. PENNOCK-MEEHAN CO.
THE WHOLESALE FLORISTS OF PHILADELPHIA

NEW YORK
117 W. 28th St.

BALTIMORE
Franklin & St. Paul Sts.

PHILADELPHIA
1608-1620 Ludlow St.
WASHINGTON
1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI July 10	CHICAGO July 3	BUFFALO July 10	PITTSBURG July 10
Roses				
An. Beauty, Special.....	20.00 to 25.00	15.00 to 20.00	20.00 to 25.00	15.00 to 20.00
" " Fancy and Extra.....	15.00 to 20.00	10.00 to 15.00	15.00 to 20.00	10.00 to 12.00
" " No. 1.....	8.00 to 12.00	4.00 to 10.00	8.00 to 12.00	4.00 to 8.00
Russell, Hadley.....	8.00 to 12.00	3.00 to 20.00	..... to	4.00 to 10.00
Killarney, Richm'd, Hilltop, Ward	6.00 to 8.00	6.00 to 8.00	5.00 to 6.00	4.00 to 10.00
" " Ord.	3.00 to 5.00	2.00 to 5.00	3.00 to 4.00	..... to 2.00
Arenburg, Radiance, Taft, Key, Ex.	6.00 to 8.00	..... to .....	..... to 6.00	6.00 to 10.00
" " Ord.	3.00 to 5.00	..... to	3.00 to 4.00	2.00 to 4.00
Ophelia, Mock, Sunburst, Extra	6.00 to 8.00	6.00 to 8.00	5.00 to 6.00	8.00 to 15.00
" " Ordinary	3.00 to 5.00	2.00 to 5.00	3.00 to 4.00	4.00 to 6.00
Carnations, Fancy	1.50 to 2.00	1.50 to 2.00	1.50 to 2.00	..... to 2.00
" " Ordinary	..... to 1.00	..... to 1.00	1.00 to 1.50	..... to 1.00
Cattleyas	50.00 to 60.00	50.00 to 60.00	50.00 to 60.00	30.00 to 60.00
Dendrobium formosum	..... to .....	..... to .....	..... to .....	..... to
Lilies	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00
Lily of the Valley	..... to 5.00	4.00 to 6.00	4.00 to 6.00	..... to 6.00
Snappdragon	3.00 to 5.00	3.00 to 5.00	2.00 to 3.00	1.00 to 3.00
Gladioli	4.00 to 6.00	4.00 to 8.00	4.00 to 6.00	4.00 to 8.00
Asters	..... to .....	..... to .....	..... to .....	.75 to 1.50
Sweet Peas	.35 to .50	.50 to 1.50	.25 to .75	.25 to 1.00
Gardenias	..... to .....	..... to 25.00	..... to 30.00	..... to
Adiantum	..... to 1.00	1.00 to 1.25	1.00 to 1.25	.75 to 1.25
Smilax	12.00 to 15.00	12.00 to 20.00	15.00 to 20.00	10.00 to 15.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00 to 35.00	25.00 to 50.00	35.00 to 50.00	35.00 to 40.00

ST. LOUIS The wholesale market is very dull and stock of all kinds is extremely poor. The only good seller now is gladioli. These are coming daily in large lots from our local growers. America, King and Augusta are in best demand. Pink Beauty, too, has a large call. Roses come in poor and the bulk of them are sold very cheap. Carnations and sweet peas sell well and big lots come in daily. Lily of the valley still has a good call and lilies have daily demand.

WASHINGTON With very hot weather at hand the usual summer conditions are prevailing. There has been a decrease in the quantity of stock coming in but there is enough and more to supply all demands. There has not yet come the heavy slump and large supply that causes the employment of wagons to carry unsalable flowers to the ash heap. Funeral work has been heavy and has used up a great deal of stock. The exchanges are now observing summer hours and are closing early. Dahlias are among the new arrivals and look good. Glad-

lioli are more plentiful and the price has dropped. There are some very good roses obtainable, but the carnations offered are too small to be of value. The demand for lily of the valley has decreased.

EARLY CLOSING IS POPULAR

HORTICULTURE Publishing Co.,
Gentlemen:—I note by a copy of HORTICULTURE just received that a great deal of mention is made about early closing during the summer months. It might be of interest to you to know that we are following our plan of last year and at our Philadelphia office we will be closed all day Saturday during July and August.

HOWARD M. EARL,
Manager, W. Atlee Burpee & Co., Philadelphia.

Editor HORTICULTURE,
Dear Sir:—I highly agree with you about the early closing in July and August, 5 o'clock week days and 2 P. M. Saturdays and 3 P. M. Wednesdays.

HENRY R. COMLEY
Boston.

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 145 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street

Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5315, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE { 608 { MADISON SQ., NEW YORK
609

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.
Tel. / 1583 { Mad Sq. 119 W. 28 St., New York
5893

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3370 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.

Wholesale Commission

READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE { 2281 { FARRAGUT 131 West 28th St., NEW YORK CITY
3089

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.
WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST VALLEY ALWAYS
GRADE OF GARDENIAS, DAISIES, ROSES, CARNATIONS
ON HAND

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, NEW YORK

Telephone 7062 Madison

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones { 1684 { Madison Square
1665

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only**MISCELLANEOUS**

	Last Half of Week ending July 8 1916		First Half of Week beginning July 10 1916	
Cattleyas	15.00	to 35.00	15.00	to 25.00
Dendrobium formosum	20.00	to 25.00	20.00	to 25.00
Lilies	2.00	to 4.00	2.00	to 4.00
Lily of the Valley	3.00	to 6.00	3.00	to 5.00
Snopdragon	1.00	to 3.00	1.00	to 3.00
Gladioli	1.00	to 4.00	1.00	to 4.00
Asters	1.00	to 4.00	1.00	to 4.00
Sweet Peas	15	to 75	15	to 75
Gardenias	12.00	to 25.00	12.00	to 25.00
Adiantum	.50	to 1.00	.50	to 1.00
Smilax	10.00	to 12.00	8.00	to 10.00
Asparagus Plumosus, & Spreu (100 bunches)	15.00	to 25.00	15.00	to 25.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for do-
ing our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK

Phones 2036, 2037, 538 Farragut

Frank H. Traendly Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797-798-799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality.

114 West 28th Street

NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13—8510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

CHICAGO.

The condition of John Poehlmann, president of the Poehlmann Bros. Co., is extremely serious.

H. Schiller, of Schiller's North Store, is enjoying the beauties of National Park, Montana, with a hiking party.

August Lange is just waiting for the summer lull in business before he starts for Mt. Clements and the baths.

Ed. Vilter, with Zech & Mann, has the sympathy of the trade in the loss of his mother whose funeral took place last Tuesday.

Mr. and Mrs. Chas. Moravek, 3220 Ogden avenue, left Saturday for a trip to Yellowstone Park. They expect to be gone two weeks.

C. W. McKellar, whose continual ill health is regretted by his many friends, is spending most of his time resting at his home in Niles Center.

Geo. Asmus and family are touring the East in an auto. They will stop at all the principal cities but longest at their home town Buffalo and in New York.

Mrs. J. Simpson reports a good business at both stores during the spring and does not regret the quiet to be expected in July. Week-end motor trips are taken in preference to one more extended and are found even more restful.

Mr. and Mrs. H. C. Wulbraudt will indulge in an extended vacation, visiting their pecan orchard in Georgia where they will erect a cottage. They will probably take in the convention at Houston. After this the Yellowstone Park and a visit in Lincoln, Neb., will complete their time of recreation.

A number of promising young florists from "down state" are spending a few days here. They were all out to Poehlmann Bros. at Morton Grove, Tuesday. Among them were Ray J. Dills, now with N. Bommersback, Decatur, Ill. After leaving Chicago he will visit his brother-in-law, F. H. Meier, a wholesale and retail florist at Vandalia, Ill.

Frank Oerhslin is building an addition to his Harlem avenue greenhouses recently purchased, consisting of four houses, 19 x 150 feet, and a service shed, 20 x 76 feet, besides making considerable improvement in the houses now on the place. When completed this place will make a fine addition to his already large establishment.

Iles Cole, of Springfield, Ill., is getting new ideas by calling on the trade while spending his vacation here. Mr. Cole was formerly with Gullett & Son, but two years ago started into business for himself at the state's capital, where the store has already been rebuilt and made up to date with new fixtures. Mr. Cole is a rising young man who seems to be making good in the business.

The colonial style of brides' bouquet still holds first place here, made with either all lily of the valley or with lily of the valley and roses or sweet peas, and without shower. Miss Schiller, whose skill is often the envy of her friends, uses several rows of maline as a background and none of the usual paper accessories. For the bridesmaids the conventional pink roses are supplanted by Ophelia with blue maline.

Philip Daut, of Daut Bros., Decatur,

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

NEW YORK QUOTATIONS PER 100. To Dealers Only**ROSES AND CARNATIONS**

	Last Half of Week ending July 8 1916	First Half of Week beginning July 10 1916
American Beauty, Special	15.00 to 20.00	15.00 to 20.00
" " Fancy and Extra.....	10.00 to 12.00	10.00 to 12.00
" " No. 1.....	2.00 to 6.00	2.00 to 6.00
Russell, Hadley	2.00 to 8.00	2.00 to 8.00
Killarney, Richmond, Hillingdon, Ward, Extra	3.00 to 4.00	3.00 to 4.00
Ordinary.....	.50 to 2.00	.50 to 2.00
Arenburg, Radiance, Taft, Key, Extra	3.00 to 5.00	3.00 to 4.00
Ordinary.....	.50 to 2.00	.50 to 2.00
Ophelia, Mock, Sunburst, Extra	4.00 to 6.00	4.00 to 6.00
Ordinary.....	1.00 to 3.00	1.00 to 3.00
Carnations, Fancy	1.00 to 1.50	1.00 to 1.50
Ordinary.....	.50 to 1.00	.50 to 1.00

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street
167 & 3058 Farragut NEW YORK

Established 1888

Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists
110 West 28th St., New York
We Solicit Consignments of New
England Grown Novelties.

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel. Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square
BOSTON, MASS.
Telephone 2618-2617-2616, Main.

Ill., is one of the young men in the florists' business. His mother, who was left a widow fifteen years ago with two small boys, founded the business and has now turned it over to their management. They are now remodeling the store, installing new fixtures, etc. Four new houses, 35 x 300 feet, for cut flowers, are just completed and 40,000 square feet more already devoted to plants. Philip is spending his vacation in Chicago and visiting the large growers.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED.
40 STATE ST. . . . BOSTON
Telephone Main 53.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK
Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of

Good Stock Solicited

PERCY W. RICHTER, Mgr., NEW YORK
111 W. 28th Street

HERMAN WEISS

Wholesale Florist

Experienced, Progressive and can handle
shipments of growers' product
satisfactorily.

106 West 28th St., NEW YORK
Tel. Farragut 3066.

STRAIGHT WHOLESALE ONLY

FRANK MILLANG

CUT FLOWERS

55-57 W. 26th St., NEW YORK
NO DESIGNS MADE UP

PERSONAL.

Will B. Munson, nurseryman of Denison, Tex., and Miss Minnie E. Secoy of Ingleside, Tex., were married July 2.

F. Gomer Waterer, of John Waterer, Sons & Crisp, Ltd., of Bagshot, England, is contemplating another visit to the United States in the coming autumn, arriving in early September.

Philip Henry Talbot and Clara Dunning Thompson were married in Yarmouth, Me., on Thursday, July 6. Mr. Talbot is a well-known and popular young florist of Portland.

NEW CORPORATIONS.

Garfield, N. J.—Garfield Floral Co., capital stock, \$45,000. Incorporators, I. and S. Shemin, M. J. Weinman and David Barnett.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

W. H. Elliott, Brighton, Mass.
Asparagus Plumosus Nanus.
For page see List of Advertisers.

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-
LINGDALE GREENHOUSES, Collingdale, Pa.

ASTERS

ASTER PLANTS, Crego and Semple's, mixed and separate colors. Strong, well-rooted plants, shipped prepaid, 60c. per 100; \$3.90 per 1000. HARRY E. SQUIRES, Remsenburg, N. Y.

AUCTION SALES

The MacNiff Horticultural Co.,
New York City.
For page see List of Advertisers.

Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price list.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

Bedding plants: Geraniums, Nutt, Ricard, Poltevine, Viand, Buchner and Rose geraniums, 3 1/2 and 4 in., \$6.00 and \$5.00 per 100. Cannas, Austria and Robusta (bronze), 3 1/2 in., \$6.00 per 100. Heliotrope (dark), 3 1/2 in., \$6.00 per 100. Salvia Bonfire, 3 1/2 in., \$5.00 per 100. Dracaena indivisa, 5 in., \$20.00 per 100. Salleri geraniums, Coleus Trailing Queen, double Sweet Alyssum, Begonia Vernon, white Marguerites, blue Ageratum, 3 in., \$4.00 per 100. Cash.
F. SOKOL, College St., Worcester, Mass.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS—Continued

BEGONIAS.

Lorraine, 2 1/2 in. pots, \$12.00 per 100; Cincinnati, 2 1/2 in. pots, \$15.00 per 100; Mrs. J. A. Peterson (New), 2 1/2 in. pots, \$25.00 per 100; \$200.00 per 1000.

JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.

"King Ideal" Boiler.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

Hitchings & Co., New York City.
For page see List of Advertisers.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

BOX TREES—Standards, Pyramids and Bush. Price list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
Gladlioh.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
Lily Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Forcing Bulbs and Plants.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

The MacNiff Horticultural Co.,
Holland Grown Bulbs.
New York City.

For page see List of Advertisers.

Mr. B. Progressive, Florist,
Everywhere, U. S. A.

Dear Sir: It will be a decided advantage as regards prices and quality to place your order with us.

Soliciting your order through this ad cuts down the overhead selling expenses and you positively get lower prices and better quality. Our terms are liberal and are a guarantee that you get a square deal, all bulbs guaranteed true to name or money refunded.

Write us and upon request we will mail you our booklet giving prices f. o. b. New York or Chicago, and we also cheerfully furnish you with any information that may be desired. Those of our friends who will mail us a list of their requirements will find it has paid them to do so.

Awaiting to hear from you at your pleasure, we remain,
Yours very truly,
Westerbeek & Klyn,
Sassenheim, Holland.

Write to WESTERBEEK & KLYNN, 14
STONE ST., NEW YORK, N. Y.

BULBS AND TUBERS—Continued

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.
For page see List of Advertisers.

Fottler, Fliske, Rawson Co., Boston, Mass.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

CANNAS

Rowan J. Irwin, New York City.
For page see List of Advertisers.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 postpaid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
Pompon Chrysanthemums.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Early Lavender Pink Chrysanthemum
Alex Guttman, also Emma, a Garza
Anemone, Double Pompon,
pale pink.

DAHLIAS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

ORDERS BOOKED ANYTIME

For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

IF YOU INTEND growing Dahlias for cut flowers then you will make no mistake if you will try my assortment, especially selected for cut flower production. Three whites, 3 pinks, 1 red, 1 yellow, 1 lavender, 1 fancy; all field roots, labeled true to name; per 100, 10 of each kind, \$3.00; per 1000, 100 of each kind, \$25.00. 50 at 100 and 500 at 1000 rates. Cash with order. Guarantee entire satisfaction. If interested in Dahlias, then please send for my wholesale trade list of Dahlias.

MANNETTO HILL NURSERIES,
W. A. FINGER, Prop., Hicksville, N. Y.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

For List of Advertisers See Page 67

DECORATIVE PLANTS

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

EXCURSIONS

Hudson Navigation Co., New York City.
To the Heart of Leisureland.
For page see List of Advertisers.

FERNS

A. M. Davenport, Watertown, Mass.
Ferns in Flats.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.

FLORISTS' PLANT STOCK

Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums S. A. Nutt, rooted cuttings,
\$8.00 per 1,000; 2 1/4 in., \$15.00 per 1,000.
First class stock. Cash. FRANK LEITH
& SON, Haverhill, Mass.

500 Buchner, 3 in., 6 cents; 500 S. A.
Nutt, 3 in., 6 cents. GEO. P. GRIDLEY,
Wolfboro Falls, N. H.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset,
Boston.
Pecky Cypress.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

John C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Boston, Mass.

Hitchings & Co., New York City.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit,
Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

Palisades Nurseries, Inc., Sparkill, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co.,
Chicago, Ill.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Mass.
Lord & Burnham Co., New York City.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

**HYDRANGEAS FOR SUMMER BLOOM-
ING**

F. R. Pierson Co., Tarrytown, N. Y.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

IRIS

R. & J. Farquhar & Co., Boston, Mass.
German Iris.
For page see List of Advertisers.

John Lewis Childs, Flowerland, N. Y.
German Iris.
For page see List of Advertisers.

LILY BULBS

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.

McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hohmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.,
Hathboro, Pa.
For page see List of Advertisers.

NIKOTEEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

ONION SETS

Leonard Seed Co., Chicago, Ill.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

PANSY SEED

Chas. Frost, Kenilworth, N. J.
The Kenilworth Giant Pansy.
For page see List of Advertisers.

Henry F. Mitchell Co., Philadelphia, Pa.
Giant Prize Pansy Seed.
For page see List of Advertisers.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

French Peonies can be shipped with celerity and security via Bordeaux-New York. Catalogues free. DESSERT, Peony Specialist, Chenonceaux (I. & L.), France.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

POINSETTIAS

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

W. H. Elliott, Brighton, Mass.
Grafted and Own Root Rose Stock.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

ROSES—Continued.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS. THE CONARD & JONES COMPANY, WEST GROVE, PA.

ROSE STAKES

The Carnation Support Co.,
Connorsville, Ind.
For page see List of Advertisers.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Winter Flowering Spencer Sweet Pea Seed.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

Jas. Vick's Sons, Rochester, N. Y.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Mignonette, Improved Eclipse.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Seeds for the Florist.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

The Leo Niessen Co., Philadelphia, Pa.
For page see List of Advertisers.

STRAWBERRY PLANTS

STRAWBERRY PLANTS, pot-grown and runner for August and Fall planting. Standard and Everbearing varieties. Also Raspberry, Blackberry Plants, Fruit Trees. Catalogue free. HARRY E. SQUIRES, Remsenburg, N. Y.

SWEET PEA SEED

Arthur T. Boddington Co., New York City.
Winter Flowering Spencer Sweet Peas.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet Peas.
For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.

For page see List of Advertisers.

Celery Plants, Golden Self-blanching (French Strain), fine plants, ready for the field, \$2.00 per 1,000; 5,000 for \$7.50. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

VEGETABLE PLANTS—By mail or express prepaid. Strong, well-rooted plants in large or small lots at reasonable prices. Will promptly replace any that do not arrive in 1st-class condition. Leading varieties, Cabbage, Tomato, Cauliflower, Celery, Sweet Potato, Asparagus, Rhubarb, Beet, Lettuce, Pepper, Egg Plants. Also Asters. Catalogue free. HARRY E. SQUIRES, Remsenburg, N. Y.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VINCAS

Vinca Var., 4 in., heavy, \$12.50 per 100; good, \$10.00 per 100; extra heavy, \$15.00 per 100. WILLIAM CAPSTICK, Auburndale, Mass.

WEED KILLER

Pino-Lyptol Chemical Co., New York City.
Pino-Lyptol Weed Killer.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 2 Winthrop Sq.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

For List of Advertisers See Page 67

WHOLESALE FLORISTS
Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
 For page see List of Advertisers.

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
 For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
 For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 264-266
 Randolph St.
 For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
 For page see List of Advertisers.

James McManus, 105 W. 28th St.
 For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
 For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
 For page see List of Advertisers.

Hentz & Nash, 55 and 57 W. 26th St.
 For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
 For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
 For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
 For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
 28th St.
 For page see List of Advertisers.

Traendly & Schenck, 436 6th Ave., between
 26th and 27th Sts.
 For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
 For page see List of Advertisers.

Woodrow & Marketon, 37 and 39 W. 28th St.
 For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.
 For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
 For page see List of Advertisers.

John Young & Co., 53 West 28th St.
 For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
 For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
 For page see List of Advertisers.

Guttman & Reynor, Inc., 101 W. 28th St.
 For page see List of Advertisers.

Gunther Bros., 110 West 28th St.
 For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
 For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
 For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
 For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
 For page see List of Advertisers.

Frank Millang, 55-57 West 26th St.
 For page see List of Advertisers.

George W. Crawbuck Co., 57 West 28th St.
 For page see List of Advertisers.

WHOLESALE FLORISTS
Philadelphia

Leo. Niessen Co., 12th and Race Sts.
 For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St.
 For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-20
 Ludlow St.
 For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
 For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 21 Stone St.
 For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
 N. W.
 For page see List of Advertisers.

New Offers In This Issue
BULBS AND SEEDS.

J. M. Thornburn & Co., New York City.
 For page see List of Advertisers.

GIANT PANSY SEED.

Henry F. Michell Co., Philadelphia, Pa.
 For page see List of Advertisers.

GLADIOLI.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
 For page see List of Advertisers.

GREENHOUSE CONSTRUCTION.

Metropolitan Material Co., Brooklyn, N. Y.
 For page see List of Advertisers.

SEEDS AND SEED SERVICE.

Leonard Seed Co., Chicago, Ill.
 For page see List of Advertisers.

**WINTER-FLOWERING SPENCER
 SWEET PEAS.**

W. Atlee Burpee & Co., Philadelphia, Pa.
 For page see List of Advertisers.

WHOLESALE FLORISTS.

Hentz & Nash,
 55 and 57 West 26th St., New York City.
 For page see List of Advertisers.

THE NUT-GROWER

The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 147 Summer St., Boston.

FOR SALE
RETAIL SEED AND FLOWER STORE

25 miles from Boston in city of 90,000 population. Old established concern doing a business of \$35,000 to \$40,000 a year, about one-half of which is seed trade. Address "T. R.," care HORTICULTURE.

FOR SALE—One 6-inch Castle Circulator complete with motor, one 6-inch Blower for forced draught; 2½, 3 and 4-inch gate valves. Write if interested. CHAS. H. RICE, Bedford St., Lexington, Mass.

FLORIST'S BUSINESS FOR SALE. Fully equipped and doing a good retail business. On main thoroughfare, near two Cemeteries; 5c. fare from Boston. For particulars, call or write WILLIAM CHRISTIE, 39 Woodlawn Avenue, Everett, Mass.

MISCELLANEOUS

WANTED TO LEASE, immediately, with privilege of purchase, about 12,000-15,000 feet of glass. Easy reach of Boston preferred. Particulars to EDE, Willow Street Greenhouses, West Roxbury, Mass.

NEW BOOK
JUST ISSUED
Plant Propagation Greenhouse and Nursery Practice

By M. G. KAINS

So many discoveries of new facts by plant investigators, shortcuts and "wrinkles" worked out by plant propagators, and nursery, greenhouse and garden methods simplified or made more effective, have made books hitherto available on plant propagation out of date.

There has also been an insistent call for a volume that would not only include the character of information wanted by nurserymen and other plant propagators, but also discuss the subject of plant propagation from the standpoint of fundamental principles, and include the latest conclusions advanced by investigators throughout the world.

This new book by Professor Kains will appeal with equal force to the amateur, the professional propagator, and the teacher in agricultural colleges and schools.

The book devotes many pages to special plant lists and condensed directions for propagation of vegetables, fruits, annual and perennial flowers, bulbs, ferns, orchids, cacti, evergreens, deciduous trees and shrubs, vines, water plants, greenhouse and house plants and palms.

The table of contents includes: An introduction on general principles, germination, seed testing, potting, layerage, bottom heat, cuttage, classes of cuttings, graftage, and theories and laws, Daniel's experiments in graftage, tree stocks and scion handling, grafting waxes and wound dressing, methods of grafting considered individually, budding methods, nursery management, and laws affecting nursery stock.

Illustrated. 5½x7½ inches. 342 pages. Cloth. Price, net, \$1.50.

HORTICULTURE PUBLISHING CO.
 147 Summer St., Boston, Mass.

In writing to Advertisers kindly mention Horticulture

THE PEONY

Paper Read Before The Lancaster County Florist Club by B. F. Farr.

Every one loves the Peony. They that can recall the enthusiasm of their grandmothers over the old garden "Pineys" may well imagine the raptures if those old people were brought in contact with the splendid Peonies of today. The old fashioned Piney, Peony officinalis, a native of Southern Europe, is rich in color, but of small size, fleeting duration and offensive odor. The early history of this Peony extends back many centuries intricately woven with a haze of superstition, allegory and myth.

Moutan Peonies

In China, it is said, the tree peony has been their chief pride and glory for 1,400 years, prized by their emperors for the beauty and fragrance of their flowers and for more than a thousand years records of the new introductions, their characters, qualities and parentage have been kept. The Japanese, too, have been largely instrumental in producing our finest varieties of tree peonies, of which there are now a dozen or more choice varieties in all colors offered for sale. The blooms are large and keep well either on the plant or when cut and placed in water. They should be grown more extensively. They can be propagated from soft wood cuttings but because of their slow growth they are usually grafted. Great care must be taken that shoots do not develop from the roots when grafted plants are used, lest the variety be lost and a wild variety taking its place.

P. albiflora

From B. H. Farr's superb catalogue we learn that the popular peony of today has only been cultivated in Europe a little more than a half century. It is descended from *Paeonia albiflora*, a native of Siberia. The modern peony is an aristocrat whose birth was among the nobility of France, for it was under the care of M. Jacques, gardener for King Louis Philippe, that some of the first of the fine varieties of today were originated. There were also Comte de Cussy, the Prince De Salm Dyck and Modeste Guerin, all enthusiastic amateurs, who secured the best varieties from Japan and China about the middle of the last century, and from these began to raise seedlings that have given us some of our present magnificent varieties. M. Jacques' collection was inherited by his nephew, M. Victor Verdier, who raised a number of fine seedlings. Comte De Cussy's collection was inherited by M. Calot, which later passed into the hands of M. Crousse. The Calot-Crousse varieties are noted for their uniform high quality, raising the standard of excellence that has never been surpassed. Another enthusiastic French amateur

was M. Mechin, whose grandson, M. A. Dessert, succeeds him and is considered one of the greatest living authorities on peonies.

England has also given us many new varieties the past twenty years. The Kelways have been the largest introducers. Unfortunately in many instances the varieties sent us under English names were duplicates of the French varieties. In America three amateurs have been especially prominent in the production of new peonies, as follows: John Richardson of Dorchester, Mass.; H. A. Terry of Crescent, Iowa, and George H. Hollis of South Weymouth, Mass.

Propagation

In the propagation of peonies or the raising of seedlings there is no road to quick results. It takes four to six years before blooms may be had from seed and, from thousands of seedlings, less than one per cent. will justify introduction as a new variety. It takes many more years to increase the stock by the slow process of division sufficiently to be able to offer it to the trade. The plants may be divided by three every three or four years. Is it any wonder good new varieties are listed from \$5.00 to \$25.00 each? New varieties are mostly introduced by amateurs. The professional florist or nurseryman can scarcely afford to wait so long for results, except where they have been raised for the love for something new and the fascination of watching them grow, which too often is not the chief incentive of the American florist.

From this sketch of the modern peony and those whom were foremost in their introduction, you will realize how nearly all of the choice varieties now in commerce were given to us by a few enthusiasts who were inspired by the beauty of the flower to which they gave their devotion.

Confusion of Names

It is to be regretted that in this great collection of peonies contributed from nearly all over the world, containing nearly 3,000 names, there are less than 300 distinct varieties, the other names all being duplicates or inferior varieties that cannot be traced to any known origin. The nomenclature committee working under the American Peony Society was formed for the purpose of trying to straighten out this mess and they are succeeding admirably well. For instance—*Edulis Supurba*, that beautiful, fragrant variety, almost ninety years old, nearly always in bloom for Decoration Day, was masquerading under some thirty different names.

For twenty-three successive Junes I have studied and lived among peonies, but a hundred years is far too short to know them as I would wish. A glance through the various catalogues of today proves that varieties introduced 100 or more years ago are still among the rarest and high priced sorts, due to their slow multiplication and strong demand.

Culture

Peonies may be planted any time from August until late in the fall or early spring. September is the best time, however, as they will make a root growth before winter sets in and they will bloom the following spring. Not until the third year after they are planted will they produce perfect flowers. They require less care after being planted than other flowers. They will grow and thrive for years without being disturbed. I have had them grow without any care whatever, but they will abundantly repay good care and nourishment. They should be planted $3\frac{1}{2}$ to 4 feet apart in good garden soil and mulched with manure in the fall.

Uses of the Peony

There was a time when the peony was only a common "Piney." There are common ones today, but the better varieties are more in demand every year. They have no competition. No other flower can take their place. They may be used in excellent taste among shrubbery or among other hardy perennials, as single clumps or large beds in the lawn, bordering drives or broad landscape effects, thriving everywhere whether in full sun or partial shade. As a cut flower nothing is more suitable for weddings, church decorations and social functions in peony season. Without the peony we would be at a great loss on Memorial Day, just as we would be without chrysanthemums at Thanksgiving.

Every florist and amateur should plant more peonies. The larger the collection the better. Secure a collection of 100 or more varieties and you will find in them more real pleasure and satisfaction than you can buy any other way for the small expense involved, saying nothing of the joy and inspiration others will derive from them, and at the same time encourage the use of more flowers. The peony will never displace other flowers regardless how popular it may become any more than a physician can displace the florist. The public wants a larger variety of flowers, frees, shrubbery, perennials, etc. Every retail florist will bear me out in this assertion.

Some of the Best Varieties

I will endeavor to name a few of the most popular varieties with which I am familiar. Red and crimson: M. Martin Cahuzac, Cherry Hill, Plutarch, Adolphe Rosseau, De Candolle, Rubra Superba, Mme. Bucuet, Edouard Andre, Atro-anginea, Geo. Washington, Liberty. Pink and rose varieties: Claire Dubois, Mme. Bollet, M. Jules Elie, Lamartine, Eugene Verdier, Gloire de Gombault, Lady Beresford, Lady Lenora Barmwell, Georgianna Shaylor, Alexandra Dumas, Albert Crousse, Cameron, La Coquette, Wilhelmina, Souv. de L'Exposition de Lille, Princess Beatrice, *Edulis Supurba*, Felix Crousse. White and delicate tinted varieties: Festiva Maxima, Couronne d'Or, Duchess de Nemours, Albatre, Duc de Wellington, La Tulipe, Mme. Calot, Mme. Crousse, Mme. Emile Lemoine, Queen Victoria, Solfatara, Golden Harvest, Marie Lemoine. Most of the above varieties are suitable for cut flowers and a portion will bloom early, midseason and late.

PINO-LYPTOL

WEED KILLER

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

P.-L. CHEMICAL CO., 507-509 W. 19th St., New York

CORRESPONDENCE SOLICITED.

Obituary

George E. Morris.

George E. Morris, reputed to be the greatest authority on mushrooms in Massachusetts, died at the Waltham Hospital on July 5, aged 62 years. Mr. Morris was an enthusiastic botanist as well as mycologist. He is said to have painted no less than 5000 water color studies of flowers, plants and mushrooms.

A. E. Simons.

A. E. Simons, for forty-eight years a well known florist in New Orleans, La., died Sunday morning, July 2, following two years of ill health. Mr. Simons was born August 11, 1858, in Cologne, Germany. When ten years old he came to New Orleans. Later he was affiliated with R. Maitre, a florist, and until eight years ago he personally directed this florist establishment at 2026 Magazine street. Since then he was superintendent of the Metairie Ridge Nursery. He was a member of the German Gardeners' Club. He is survived by his widow and four daughters.

William Tricker

This well-known florist and aquatic plant expert died suddenly of heart disease at 10 A. M. on Tuesday, July 11, while at work in his greenhouses at Arlington, N. J. Mr. Tricker was a large man physically, and apparently enjoyed the best of health. When he left the house on Tuesday morning he joked with his wife and went away smiling. His son, Charles, was in the greenhouse when he died. Dr. A. A. Mutter of Arlington was summoned and pronounced death due to heart disease.

Mr. Tricker was born in Ipswich, England, sixty-four years ago. He came to this country in 1886 and had been a resident of Arlington nearly ten years. He made a specialty of growing aquatic plants, especially nymphaeas, of which he raised a number of fine varieties. He was an exhibitor at all the large shows throughout the country and was the winner of many prizes. He was a member of the S. A. F. and the N. Y. Florists' Club.

Surviving are his widow and six children, Mrs. William Seymour of West End, Mrs. J. M. Coddington of Reverton, William E. of St. Louis, Mo., Rupert of Pensauken and Charles and Miss Florence Tricker of Arlington.

The news of Mr. Tricker's death will bring widespread sorrow all through the trade. He was universally liked.

VISITORS' REGISTER.

New York—L. J. Reuter, Westerly, R. I.

Boston—Allan Jenkins, Shrewsbury, Mass.; T. A. Havemeyer, New York.

Pittsburgh—Frank Farney, repr. M. Rice & Co., Phila.; George Hampton, of Neidinger Co., Phila.

Washington, D. C.—George Maunz, with Reed & Keller, New York, N. Y.; Jos. F. Wempler, Wilkes Barre, Pa.; Mrs. Fred Lemon and children, Richmond, Ind.

Philadelphia—R. T. Brown, Cottage Gardens Co., Queens, N. Y.; H. L. Holmes, Harrisburg, Pa.; Stephen Mortensen, Southampton, Pa.; E. A. Seidewitz, Baltimore, Md.; Dr. John H. Washburn, Doylestown, Pa.

Chicago—Iles Cole, of Hembreiker & Cole, Springfield, Ill.; Ray J. Dills, with N. Bommersbach, Decatur, Ill.; Philip Daut of Daut Bros., Decatur, Ill.; Joseph Bock, Burlington, Iowa; J. J. LeBorious, Duluth, Minn.; Sidney Beard of Beard Bros., Detroit, Mich.; M. Stauch, with J. F. Wilcox & Sons, Council Bluffs, Iowa.

CUTTING GLADIOLUS SPIKES.

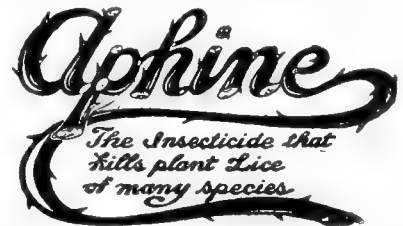
It is generally known that in order to encourage growth of corms and cormels it is not well to allow the flowers to remain for seeds to mature, nor is it well when cutting the flower-spikes to cut so low down as to remove most of the foliage. The generally approved procedure is to cut the spike when the first flower is opened, not cutting away more than the upper pair of leaves, if indeed any leaves are cut.

Last year I thought I would see what difference would result if I went beyond the orthodox plan. In five rows of Pendletons I proceeded as usual, cutting the spikes when the first bloom opened; all but the middle row. In that row I pinched out the buds just as soon as they appeared, so that the strength that would have been used in maturing the buds might be diverted into greater root-growth. I waited with much interest the time for digging, wondering whether I should find the greater gain in corms or cormels. To my surprise there was no perceptible difference between that row and the others, so that at least in that case there was the loss of the flowers and no gain in either corms or cormels.

Possibly this mention may save some one else from repeating a foolish practice.—C. C. MILLER, in *The Modern Gladiolus Grower*.

A USEFUL BOOK

The publishers have gotten out a new edition of "Trees, Shrubs, Vines and Herbaceous Perennials" by Kirk-egaard, Fernald and White. The book is greatly appreciated as a text-book in the State agricultural colleges and experiment stations. And it is still "absolutely the only book of its kind on the market" as Professor Nehrling says. We can supply copies at \$1.50, expressage prepaid.



The Recognized Standard Insecticide. A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SOA-LINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



IMP.

SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON



NIKOTEEN

For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer For It.

NICOTINE MFG. CO.
ST. LOUIS

Est. 1765

Inc. 1904

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS
NEW YORK, N. Y.**KING CONSTRUCTION COMPANY, North Tonawanda, N. Y.****GREENHOUSES****We Claim Maximum Strength and Minimum Shadow. Investigate**

BOSTON OFFICE: 113 State St., Boston, Mass.

PHILADELPHIA OFFICE. Harrison Building, 15th and Market Sts., Philadelphia, Pa.

BUSINESS TROUBLES.

Binghamton, N. Y.—A dividend of 7 per cent. has been declared by referee in bankruptcy, on June 27, in settlement for James W. Shearer, bankrupt florist. The dividend was declared on the report of the trustee.

Estate of Isaac E. Coburn, late of Everett, in the County of Middlesex, deceased, represented insolvent. The subscribers as Commissioners appointed by the Probate Court for said County to pass on all claims presented against said estate, hereby give notice to all creditors that on July 7th, 1916, they filed their report in said Probate Court.

LEMUEL W. PETERS.
HOWARD D. MOORE.
Commissioners.

July 7, 1916.

NEWS NOTES.

Essex, Ia.—J. H. Colvin has leased the Essex Greenhouses.

Hartford, Ct.—W. W. Hunt has purchased the nursery business of George B. Turner, 106 Pratt street.

Thermopolis, Mont.—John L. Dad-dell has leased a section of the State reservation at Big Horn Hot Springs and will erect a range of greenhouses.

Chicago, Ill.—Robert Windler has leased the greenhouses of his father-in-law, Adam Zender, at Rogers Park, and will grow roses for the Chicago market.

**GREENHOUSES BUILDING OR CON-
TEMPLATED.**

Newport, Vt.—J. R. Farrant, one house.

Grove City, Pa.—D. E. Raver, one house.

Waverley, Mass.—Peirce Bros., one house.

Salem, Mass.—Miss Emmerton, house 25 x 95.

Kittanning, Pa.—Chula Vista Ranch Co., additions.

Columbus, Neb.—Purity Drug Co., range of houses.

Gorham, Me.—Roland Barrows, one house, completed.

St. Louis, Mo.—John Nyphlot, three houses, completed.

Clayton, Mo.—Werner Bros., two rose houses, 32 x 150.

Washington, N. J.—Alonzo J. Bryan, five houses each 35 x 140.

Streator, Ill.—Davis & Steiner, 10 Garland vegetable houses.

Louisville, Ky.—Henry F. Pittelquo, 2305 Payne avenue, additions.

Roelefs, Pa.—Joseph Heacock Co., propagating house 15 x 300.

Utica, N. Y.—Edward Whitton, Walnut street, near York, one house.

Palatine, Ill.—Henry E. Mersch, one house. Nicholas F. Mersch, one house.

Chicago, Ill.—Frank Oechslein, 22d street and Haarlem avenue, two plant houses.

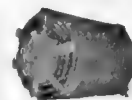
Thermopolis, Mont.—John L. Dad-dell, Big Horn, Hot Springs, range of houses.

Dallas, Tex.—Fred Trim, Highland Park, one house; Lang Floral & Nursery Co., Haskell avenue, two houses.

DESTRUCTIVE STORMS.

Eastern New England towns have suffered much damage from the recent furious rain storms often accompanied by lightning and occasionally by hail stones. On the afternoon of July 3 a storm of exceptional violence visited Eastern Massachusetts. C. J. McGregor had over 300 lights of glass broken by the hail. All florists in Lynn sustained more or less damage, William Miller's range having much broken glass. At Concord, N. H., two days previous, Donald McLeod had his houses badly wrecked by hail stones. Colby's green-

houses are also reported as suffering considerably from broken glass. Field crops were laid waste, garden shrubs and flowers beaten to pieces and trees uprooted in many places.

**NON-KINK WOVEN HOSE**

In any length (one piece) with couplings, 14c. per foot. Unequalled at the price. Remnants, shorter than 50 feet, 10c. per foot, with couplings.

HOSE VALVE—70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

**METROPOLITAN MATERIAL CO.**

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

**DREER'S**

Florist Specialties,
New Brand. New Style.
Hose "RIVERTON."

Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST

3/4 inch, per ft., 15 c.
Reel of 500 ft., " 14 c.
2 Reels, 1000 ft., " 14 c.
3/4 inch, " 13 c.
Reels, 500 ft., " 12 c.

Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

**Evans 20th Century Arm**

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

**STANDARD FLOWER
POTS**

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

25th & M Sts., Washington, D. C.

THE FLORISTS' HAIL ASSOCIATION

Is a mutual organization, insuring greenhouse glass against hail. Both commercial and private establishments are accepted. For particulars, address

John G. Eiler, Sec., Saddle River, N. J.
Insure Now.

TO THE HEART OF LEISURELAND

where woods are cool, streams alluring, vacations ideal. Between New York City (with Albany and Troy the gateways) and

LAKE GEORGE, THE
ADIRONDACKS, LAKE
CHAMPLAIN, THE
NORTH AND WEST

The logical route is "THE LUXURIOUS WAY." Largest and most magnificent river steamships in the world—DAILY SERVICE.

Send for free copy of Beautiful
"Searchlight Magazine"

HUDSON NAVIGATION CO.

Pier 32, North River

New York

"The Searchlight Route"

FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, - - - - - CHICAGO, ILL.

SHARP, PARTRIDGE & CO.

Are Leaders in

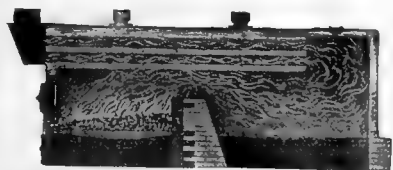
GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

KROESCHELL BOILER

SEND FOR CATALOGUE



KROESCHELL BROS. CO.
406 W. Erie St. Chicago, Ill.



EVERYTHING FOR THE GREENHOUSE

John C. Moninger Company

CHICAGO NEW YORK
922 Blackhawk St. 812 Marbridge Bldg.
CINCINNATI, 2314 Union Central Bldg.

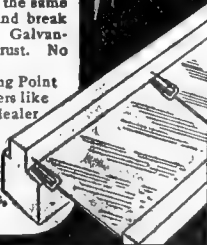
Drer's Peerless Glazing Points

For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.
Samples free.
HENRY A. DRER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No 2



GLASS

GREENHOUSE MATERIAL
HOT-BED SASHES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

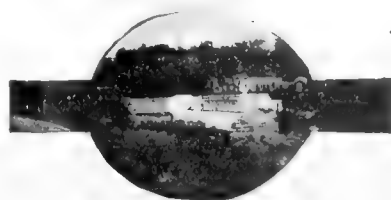
GET OUR CATALOGUE

On Ventilating Apparatus and Greenhouse Fittings

ADVANCE CO., RICHMOND, IND.

"METROPOLITAN"

The Sign of Superiority



The success of your greenhouse depends largely upon the results previously shown by the builder you employ.

Therefore, every grower should investigate the capabilities of the greenhouse builder he selects for the job.

The above full iron frame, patented curved eave Metropolitan greenhouse was erected by us for Mr. W. W. Fuller, at Briar Cliff Manor, N. Y. This house is 26 x 100 feet, with an absolutely water proof cement boiler cellar. It is divided into three compartments which are separately heated and ventilated, and, being glazed with 24 x 24 inch glass, is extremely light. We also did the masonry.

PUT YOUR GREENHOUSE PROBLEMS UP TO US

We go anywhere in the U. S.
to submit plans and prices.

METROPOLITAN MATERIAL CO.

Patented Greenhouses

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

PATENTS

Trademarks
and Copyrights

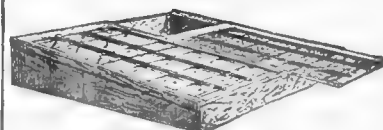
Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms.

Address,

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



HOTBED SASH at 75c. each
Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.
Double Light Sash up to \$4.00.

We carry a large stock of all sizes.
Write us for estimate.

S. JACOBS & SONS
1359-1385 Flushing Avenue BROOKLYN, N. Y.

MASTICA

For Greenhouse
Glazing

USE IT NOW

F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

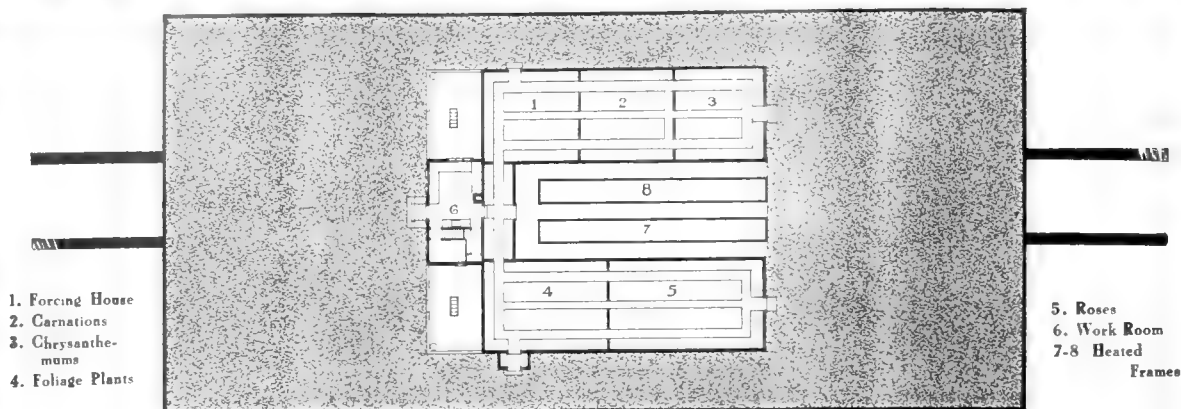
Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.



Seal-tight liquid putty at \$1.25 per gallon.
METROPOLITAN MATERIAL CO.
1392-1414 Metropolitan Ave., Brooklyn, N. Y.



A Recent Heating Happening Of Interest to Superintendents and Gardeners

A COUPLE or so weeks ago, our New York manager was summoned hurriedly to the 'phone at the urgent call of the Superintendent of a big Long Island estate where we were erecting the group of houses shown in this plan. In arranging the heat, in accordance with our present custom, we had planned to double valve all center coils and single valve all side coils, all of the houses except the passage house being 25' in width. Before preparing specifications for this work, the Superintendent impressed upon us the importance of so valving the coils, that he could get reasonable control of the temperature in each compartment. We arranged the valving with that in mind.

While our men were at work, he observed some coils with single valves on them, and asked our men if he could expect to get control of the temperature with single valves. Our erection heating men, not knowing of the conditions, told him "of course he could not; it was necessary to have two valves on coils to get control of temperatures."

Over the 'phone he asked us "how it was that the heating was not being installed to permit of positive control in the various compartments." We told him that as we understood the case, he was really more concerned about getting results, than he was in the methods we might employ to secure them for him. He admitted this was the case. Then we explained to him that in order to give him a positive control of each coil, it would be necessary to have each coil supplied from a separate main, which as he could easily imagine, would mean quite a complicated heating system, to say nothing of the expense. We further explained that it was not our custom nowadays to lay out a range of greenhouses without the plan being passed on by men who were experts in the requirements of plants. Also that

while some years ago it would not have been a strange thing to find a chrysanthemum house sandwiched between a forcing and carnation house, instead of occupying the outside end compartment, as is the case in this plan, this could not occur with us today.

In laying out a range of this character we first determine, as far as possible, the class of plants to be provided for and then arrange the compartments accordingly, placing the warmest house nearest the boiler; those requiring maximum sunlight where they will not be exposed to shadows; cool house where heat can be controlled most conveniently, and in the case of the 25' house to double valve all center coils, thereby making it possible to reduce the temperature 10 degrees below that specified for that compartment. Owing to the limited amount of radiation required to maintain the desired temperature for this class of plants, the heat in the chrysanthemum house was arranged so all coils were under the side benches, leaving the space under the two center benches available for storage of semi-dormant plants or bulbs. Double valving the side coils makes it possible in the Fall of the year, when "mums" need to be kept cool and other houses require heat, to eliminate all heat in this compartment. When our friend realized he could control his temperature within 10 degrees, he expressed himself as entirely

satisfied with our system of valving. He declared he "had no idea that greenhouse people so studied the gardener's conveniences or the plants' requirements." He "had always imagined they had a cut and dried way of arranging their work, leaving it to the unfortunate gardener to do the best he could with the houses."

Now, no doubt, you are wondering where this Long Island estate is and who the Superintendent and Gardener are. We would be very glad to tell you, if you will only let us know you want to know.



Both the flow and return pipes are valved. Note Vent gear above pipes.

Hitchings and Company

NEW YORK
1170 Broadway

BOSTON
49 Federal Street

PHILADELPHIA
40 S. 15th Street

General Offices and Factory: Elizabeth, N. J.

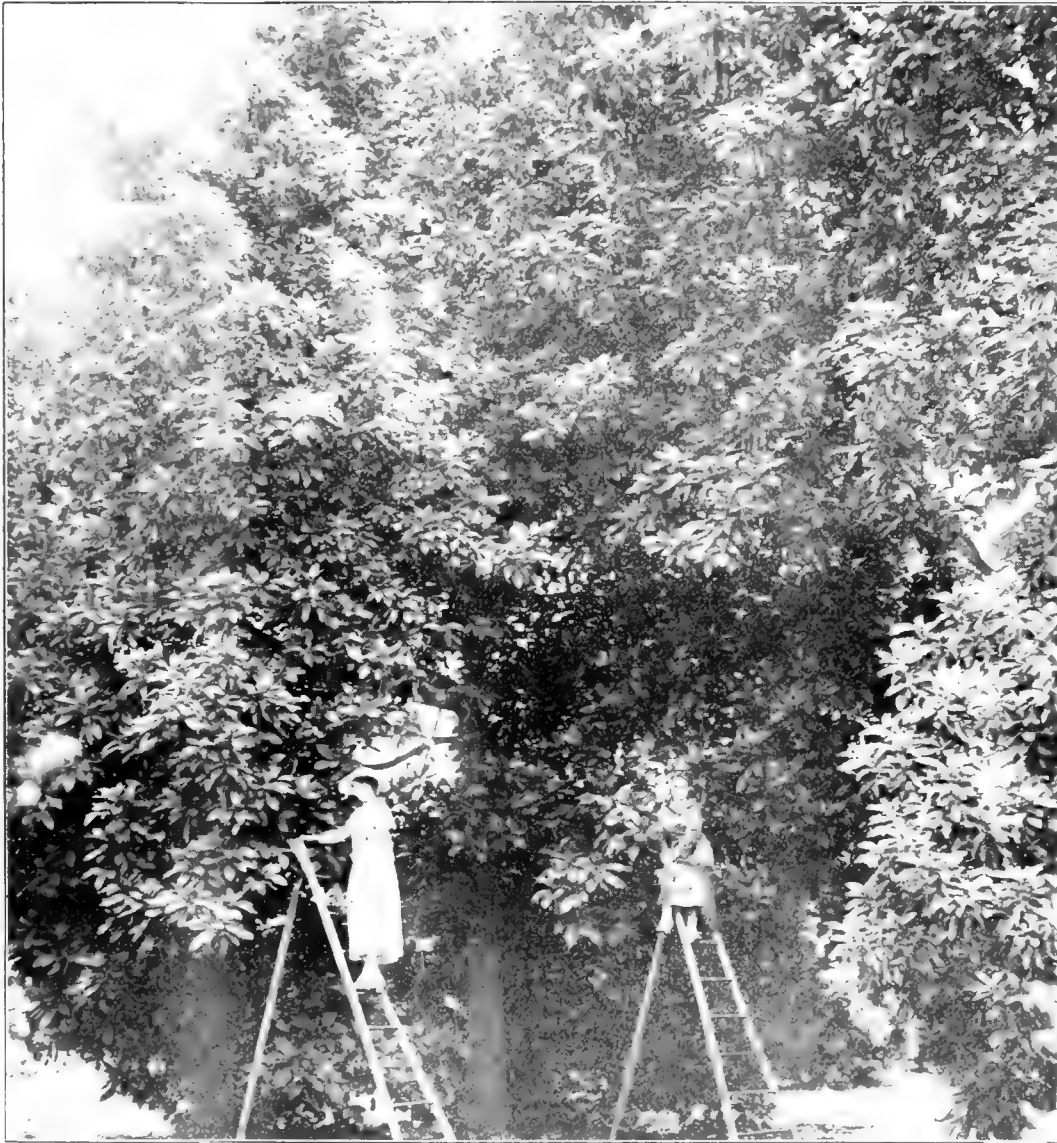
Vol. XXIV

No. 4

JULY 22

1916

HORTICULTURE



The Gantor Avocado

A Wonderful Fruit Tree in Whittier, Calif.



Boddington's Re-selected Winter-flowering Spencers as grown by Wm. Sim, Cliftondale, Mass.

Boddington's Winter-Flowering Spencer Sweet Peas

The New Sensational Australian Spencer Winter-Flowering Sweet Peas

The following varieties are, without doubt, the greatest and most valuable novelties introduced since the famous Yarrawa Spencer marked the commencement of a new era in Winter Sweet Peas.

NOW READY FOR DELIVERY

CONCORD DAYBREAK
Cream with standard heavily edged buff pink.

CONCORD CHARM
Delicate shades of white and blue white wings and very light heliotrope standard.

CONCORD COUNTESS
Most attractive tint of pink.

CONCORD COQUETTE
Mottled light rosy carmine.

CONCORD EMPEROR
A rich crimson red variety.

CONCORD PURPLE
Mauve purple, changing to purple blue.

CONCORD RADIANCE
A very striking shade of rosy magenta.

CONCORD WINSOME
Delightful shade of pink, tinted lavender.

COERULEA
Delicate sky-blue.

RUBY
A glowing light crimson scarlet color.

SALMONEA
A deep rosy salmon variety of great merit.

Prices on all the foregoing Pkt. (18 seeds) 35 cts.; 5 pkts. \$1.50.

Yarrawa

Bright rose-pink, with light wings. Seed sown early in September will flower about December 1, and bloom profusely and continuously until May. They are borne usually in fours on extra-long, strong stems. Awarded Certificate of Merit, International Flower Show, New York, 1914, and the Pennsylvania Horticultural Society, March, 1915.

Introducers re-selected stock: 1/4 oz. 1 oz. 1/4 lb. 1 lb.
California grown seed: \$.60 \$2.00 \$7.00 \$24.00
..... .35 1.00 3.50 12.00

Popular Spencer Winter Sweet Peas of Recent Introduction

The varieties offered below are now too well-known to need much description; we classify colors to make ordering easy. All our stocks are re-selected and can be thoroughly relied upon to come true to description and color.

Pink and White

	1/4 oz.	1 oz.	1/4 lb.	1 lb.
Christmas Pink Orchid. Standard bright pink, wings white, an improvement on Pink & White Orchid	\$1.00	\$3.00	\$10.00	\$35.00
Pink-and-White Orchid. Similar in color to Christmas Pink.	.25	.75	2.50	9.00
Sensation. Newman & Legg's variety of the Christmas Pink Orchid.	1.00	3.00	10.00	35.00
The Czar. Standard rose wings white, mottled with pink.	.25	.75	2.50	9.00

Pink and Light Pink

	1/4 oz.	1 oz.	1/4 lb.	1 lb.
Bohemian Girl. One of the finest pink selfs.	\$.50	\$1.50	\$4.50	\$15.00
Fordhook Pink. Rose pink on white ground shading deep pink toward the edge of the standard and wings.	1.00	3.00	10.00	35.00
Morning Star. Self pink color.	1.00	3.00	10.00	35.00
Mrs. Jos. Manda. Light shell pink.	.40	1.25	3.75	14.00
Miss Florence Roland. Light pink with salmon.	.50	1.50	4.50	15.00
Mrs. A. A. Skach. Beautiful, clear, bright pink.	.35	1.00	3.50	12.00
Rose Queen. A pink of sterling merit and of most pleasing shade.	.50	1.50	5.00	18.00
Selma Swenson. Light, soft pink.	1.00	3.00	10.00	35.00

New Crop seeds ready for delivery in late July and early in August.

White and Blush

	1/4 oz.	1 oz.	1/4 lb.	1 lb.
Bridal Veil. Pure white.	\$.35	\$1.00	\$3.50	\$12.00
Mrs. M. Spanolin. Double white.	.35	1.00	3.50	12.00
Venus. Standard slightly bluish pink.	.50	1.50	4.50	15.00
White Orchid. Pure white.	.35	1.00	3.50	12.00

Red and Rose

	1/4 oz.	1 oz.	1/4 lb.	1 lb.
Belgian Hero. A beautiful rose.	\$1.00	\$3.00	\$10.00	\$35.00
Fordhook Rose. Rosy carmine.	1.00	3.00	10.00	35.00
Orchid Beauty. Dark rose pink, with orange bluish.	.25	.75	2.50	9.00
Red Orchid. Bright carmine red.	.35	1.00	3.50	12.00
Sensation Scarlet. Bright scarlet.	1.00	3.00	10.00	35.00

Apricot and Orange

	1/4 oz.	1 oz.	1/4 lb.	1 lb.
Apricot Orchid. Mostly apricot self	\$.60	\$1.50	\$4.50	\$15.00
Orange Orchid. Standard orange, wings dark salmon pink.	.60	1.50	4.50	15.00

Lavender and Blue

	1/4 oz.	1 oz.	1/4 lb.	1 lb.
Anita Wehrmann. A beautiful shade of lavender.	\$1.00	\$3.00		
E. Burke. The best lavender. Trade pke. 125 seeds. 50c.		2.50	6.00	
Mrs. John M. Barker. Lilac, with glistening dark rose wings light blue on white ground.	.50	1.50	4.50	15.00

August. Any other variety not in above list can be supplied.

Florists' Flower Seeds for Present Sowing

Pansies, Giant Varieties

	Tr. pkt.	1/4 oz.	Oz.
Boddington's "Challenge" Mixture.	\$.50	\$1.50	\$5.00
Sim's Gold Medal Mixture.	.75	2.00	
Knott's Winter-flowering Mixed. Giant flowers of great substance on long stems.	.75	2.50	
Triumph of the Giants. Extremely large flower of beautiful colorings.	.50	2.75	10.00
Giant Trimardeau. Mammoth flowering, and in a good range of color.	.15	.50	1.50
Giant Masterpiece (Frisled Pansy). Petals beautifully waved; exquisite colors.	.25	1.25	4.00
Giant Madame Ferret. A recent introduction by a celebrated French specialist; of strong, free growth.	.15	.85	3.00
Giant Lord Beaconsfield. Deep purple violet, top petals light blue.	.15	.50	1.50
Giant Emperor William. Ultramarine blue, purple eye.	.10	.50	1.50
Giant Golden Queen. Bright yellow; no eye.	.15	.60	2.00
Giant Golden Yellow. Yellow brown eye.	.15	.75	2.50
Giant President McKinley. Golden yellow, large dark blotch.	.15	.85	3.00
Giant White. Violet spot.	.10	.60	2.00

Asparagus Seed

	Tr. pkt.	1/4 oz.	Oz.
PLUMOSUS NANUS. True greenhouse grown. 100 seeds 50c., 250 seeds \$1.00, 1000 seeds \$3.50.			
PLUMOSUS NANUS. California grown. 100 seeds 50c., 250 seeds 75c., 1000 seeds \$2.50.			
CALCEOLARIA, Boddington's Perfection Mixed.	\$1.00	\$.60	
CINERARIA, Boddington's Matchless Mixed.	1.00	.60	
CINERARIA, Boddington's Stellata Mixed.	1.00	.60	
MIGNONETTE, Boddington's Majesty. The finest of all varieties of Mignonette for Winter forcing.			
Per oz., \$7.50	1.00	.60	

Winter Stock

	Tr. pkt.	1/4 oz.
Beauty of Nice. Daybreak pink.	\$.25	\$1.00
Lenox Purple. Light purple.	.25	1.00
Princess Alice. Pure white.	.25	1.50
Queen Alexandra. Rose lilac.	.25	1.00
SCHIZANTHUS Boddington's. Select hybrids. Tr. pkt. 75c.; 3 for \$2.00.		

5% DISCOUNT FOR CASH WITH ORDER.

ARTHUR T. BODDINGTON CO., Inc., 128 Chambers St., New York City

GERANIUMS

Alphonse Ricard, Beaute Poltervine, S. A. Nutt, Gen'l Grant, Mad. Buchner, Mad. Recamier, Jean Oberlee, Abbie Schaefer, Mad. Landry, La Favorite, Jean Viaud and other good kinds, in good 3-in. stock at \$3.00 per 100, \$25.00 per 1000; 2-in. at \$2.00 per 100. We have a large stock on hand for immediate shipment and are booking orders for next season.

Boston Ferns, 4-in., \$15.00 per 100; 7-in., \$6.00 per doz.

	2-in.	2-in.	3-in.	3-in.
	100	1000	100	1000
ALYSSUM, Dwarf and Giant.....	\$2.00	\$18.50	\$3.00	\$25.00
COLEUS, ten varieties.....	2.00	18.50	3.00	25.00
CUPHEA PLATYCENTRA	2.00	18.50	3.00	25.00
LEMON VERBENAS, six varieties.	2.00	18.50	3.00	25.00
MOONVINES	2.00	18.50	3.00	25.00

	2-in.	2-in.	3-in.	3-in.
	100	1000	100	1000
PARLOR IVY, S. Scandens.....	\$2.00	\$18.50	\$3.00	\$25.00
POMPON CHRYSANTHEMUMS ..	2.00	18.50	3.00	25.00
SALVIA, Bonfire and Zurich.....	2.00	18.50	3.00	25.00
SWAINSONA, White.....	2.00	18.50	3.00	25.00

CELERY. White Plume, Giant Pascal and Golden Heart \$1.00 per 1000; 10,000 and over 85c. per 1000.

PARSLEY. Dwarf Fern leaf; 25c. for 100; \$1.25 per 1000.

CABBAGE. \$1.00 per 1000; 10,000 and over 85c. per 1000.

CASH WITH ORDER.

R. VINCENT, Jr., & SONS CO.,

**WHITE MARSH,
MD.**

LILY OF THE VALLEY PIPS

Danish and German Stock

**Booking Orders now for
1916 Crop**

LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

CHAS. SCHWAKE & CO., Inc.

Valley

GERMAN, SWEDISH
AND DUTCH PIPS

90-92 West Broadway, New York

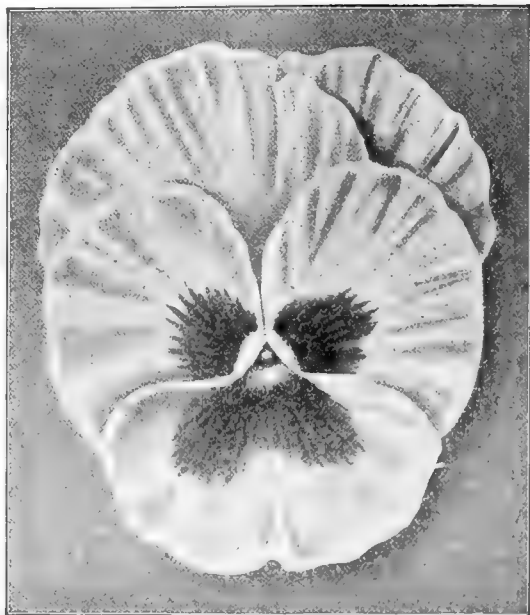
LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....126	Cówee, W. J.....116	Gunther Bros.....119	Loechner & Co., 99	Pennock-Meehan	Small, J. H. &
Albany Cut	Craig, Robt. Co.107	Guttman & Ray-	Lord & Burn-	Co.....117	Sons.....110
Flower Ex.....118	Crawback, Geo.	nor.....118	ham.....128	Pierce Co., F. O.127	Smith, Elmer D.
Allen, J. K.....119	W. Co.....119	Hail Association.126	McHutchison &	Pierson, A. N.....107	& Co.....100
Anderson, S. A.....115	Dards.....114	Harris, S. G.....107	Co.....100	Pierson, F. R.....107	Smith, P. J.....118
Anglin & Walsh.107	Davenport, A. M.100	Hart, Geo. B.....118	McManus, Jas.....118	Pino-Lyptol Co.....125	Smith & Fettes.115
Aphine Mfg. Co.125	Dreer, H. A.126-127	Henderson, A. &	McConnell, Alex.114	Poehlmann Bros.	Smith, W. & T.
Badgley & Bishop,	Dorner, F. A	Co.....109	MacNiff Horticul-	Co.....116	Nursery Co.....107
Inc.....118	Sons Co.....160	Hentz & Nash.....118	tural Co.....107	Pulverized Ma-	Smyth, Wm. J.....115
Barrows & Son.....100	Dunlop, John H.115	Hess & Swoboda.115	Marshall, W. E.	nure Co.....125	Stearns, A. T.
Bayersdorfer, H.	Dysart, Robt.....119	Hews, A. H. &	& Co.....109	Randall's Flower	Lumber Co.....126
& Co.....111	Eastern Chemical	Co.....126	Metropolitan Ma-	Shop.....114	Stumpp, G. E. M.114
Bay State Nur-	Co.....125	Hill, E. G. Co.....116	terial Co.....126-127	Reed & Keller.....116	Thorburn, J. M.
series.....107	Edwards Potting	Hill, D. Nursery	Michell, H. F.	Ried, Edw.....116	& Co.....109
Bobbink & At-	Box Co.....116	Co.....107	Co.....109	Roberts.....115	Totty, Chas. H.....100
kins.....107	Elliott Auction	Holland Nurser-	Michigan Cut	Robinson, H. M.	Traendly &
Boddington, A. T. 98	Co.....107	ies.....107	Flower Ex.....116	& Co.....119	Schenck.....118
Boliano & Son.109	Ernest, W. H.....126	Holm & Olson.....114	Millang, Chas.....118	Robinson, H. M.	United Cut Flower
Breck, J. & Sons 109	Esler, J. G.....126	Hudson Naviga-	Millang, Frank.119	Co.....118	Co.....119
Brietmeier's, J.	Evans, J. A. Co.125	tion Co.....124	Moninger, J. C.	Rochrs, J. Co.....100	Valentine, J. A.114
sons.....114	Eyres.....115	Irwin, R. J.....106	Co.....127	Roland, Thomas.114	Vincent, R. Jr.,
Budlong, J. A.....116	Farquhar, R. A	Jacobs, S. &	Murray, Samuel.114	Rolker, A. &	& Sons Co.....99
Bunyard, A. T.....114	J. & Co.....109	Sons.....127	National Nur-	Sons.....107	Wants, For Sale.123
Burnett Bros.....109	Foley Mfg. Co.127	Kasting, W. F.	seryman.....107	Rosery, The.....114	Ward, R. M. &
Burpee, W. A. &	Ford, W. P.....118	Co.....116	Nave, Paul de.100	Salter Bros.....115	Co.....100
Co.....112-113	Ford, M. C.....118	Keller, J. B.	Nicotine Mfg.	Schling, Max.....114	Weber, F. C.....115
Carnation Support	Pottler, Fiske,	Sons.....114	Co.....125	Schwake, Chas.	Weiss, Herman.....119
Co.....107	Rawson Co.....109	Kerr, the Florist.115	Nut Grower.....123	Co.....99	Welch.....116
Carter's Tested	Frost, Chas.....100	Kervan Co.....118	Ouwkerk, P.....107	Shap, Partridge	Welch Bros. Co.116
Seeds, Inc.....108	Froment, H. E.....118	King Construc-	Pallisades Nur-	& Co.....127	Welch, Patrick.....119
Childs, John	Galvin, Thos. F.115	tion Co.....126	series.....107	Sheridan, W. F.118	Wood Bros.....100
Lewis.....100	Gasser Co., J. M.115	Knoble Bros.....115	Palmer, W. J. &	Siebrecht, Geo. C.118	Woodrow & Mar-
Clark's D. Sons.114	Graham, Adam &	Kramer, F. H.....115	Son.....115	Sieboldt, W. R.	ketos.....116
Clucas, R. W.....107	Son.....115	Kroeschell Bros.127	Park Floral Co.114	& Co.....118	Young, John &
Coan, J. J.....119	Grey, Thos. J.	Kuebler, W. H.118	Parselsky Bros.127	Sigets & Sig-	Co.....118
Comley, H. R.....106	Co.....109	Lange, H. F. A.115	Pellcano, Rossi	gers.....127	Young & Nugent.114
Cooke, Geo. H.114	Gude Bros. Co.114	Leonard Seed Co 109	& Co.....114	Skidley, S. S.	Zinn, Julius.....114
			Penn the Florist.115	& Co.....100	Zvolanek, Ant. C.109

**FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 120, 121, 122, 123**

New Early Flowering Giant Pansies

Or Winter Blooming



An entirely new and distinct strain of Pansies. The main advantage of these new Pansies over all hitherto existing Pansies is the extreme earliness of flowering and its unusual hardiness, which enables them to withstand quite severe Winters, and to bloom right on into the Summer. Sown at the same time as other Pansies, they begin flowering the early part of March or as soon as the snow is off the ground, many times having four or five large flowers to a plant, when all other Pansies are only showing buds. The flowers are large, well formed and fragrant. They are highly recommended for Autumn planting on graves, and for very early bedding, as well as for early cut flowers.

14. **WINTER SUN.** Golden yellow with dark eye.
15. **ICE KING.** Silvery white with dark blue eye.
16. **CELESTIAL QUEEN.** Light or sky blue.
17. **CHARM OF MARCH.** Dark velvety blue.
18. **MIXED.** The above four colors with other shades and variations.

Each color separate or mixed.

500 seeds 50c., 1000 seeds \$1.00, 1/8 oz. \$2.00, 1/4 oz. \$3.75, 1 oz. \$15.00.

For list and price of other Kenilworth Pansy Seed see my ad of July 8.

FREE OFFER RAINBOW is a mixture of the most beautiful, gorgeous colors, blotched, striped, veined, margined, etc. With every \$1.00 worth of Pansy seed I will send, free, 1000 seeds of Rainbow and with other amounts in like proportion.

Chas. Frost
Kenilworth,
N. J.

FERNS IN FLATS

Eight Best Varieties—200 Clumps to a Flat

\$2.00 per flat; 10 or more flats, \$1.90 each

A. M. DAVENPORT, Watertown, Mass.

CHRYSANTHEMUMS

From 2 1/2-In. Pots

Thanksgiving Queen, Unaka, Dolly Dimple, Elise Papworth, Intensity, Golden Dome, John Shrimpton, Lynnwood Hall, Patty, Yellow Eaton, Unaka.

\$4.00 per 100, \$30.00 per 1000.

Autumn Glory, Ada Spaulding, Cullingfordii, Dr. Enguehard, Early Snow, Golden Glow, Geo. Kalb, Glory of the Pacific, H. W. Rieman, Money Maker, Maud Dean, Monrovia, Mrs. J. Jones, Miss Alice Byron, Mrs. Baer, Major Bonaffon, Polly Rose, Pacific Supreme, Robt. Halliday, Smith's Advance, White Bonaffon, W. H. Lincoln and Timothy Eaton.

\$3.00 per 100, \$25.00 per 1000.

WOOD BROS., FISHKILL, N. Y.

LILY BULBS

Fall Shipment from Japan

Prices quoted F.O.B. New York, Chicago, Denver, San Francisco and London (Ont.)

Write for quotations stating quantity, variety and size required.

McHUTCHISON & CO. The Import House
95 Chambers St., New York

ORCHIDS

We grow and sell nothing but ORCHIDS. If you are in the market for this class of plants we respectfully solicit your inquiries and orders. Special lists on application.

LAGER & HURRELL, Summit, N. J.

ORCHIDS

Just received a grand importation of Lycaste Skinnerii. We also carry a choice line of established plants at all times. Write for prices now.

PAUL DE NAVE

ORCHID GROWER.

Tel. Connection. FALL RIVER, MASS.

OUR EXHIBIT OF

GERMAN IRIS

Won FIRST PRIZE at the

International Garden Club, Summer Show, Pelham Manor
June 1-4, 1916

JOHN LEWIS CHILDS, INC.,
FLOWERFIELD L. I., N.Y.

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.

WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.

ROOSEVELTS—\$5 per 100, \$40 per 1000.

BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ELMER D. SMITH & CO.
CHRYSANTHEMUMS

Ask for Catalogue

ADRIAN, - - - MICH.

CHARLES H. TOTTY

CHRYSANTHEMUMS
MADISON, N. J.

LILY BULBS

RALPH M. WARD & CO.
71 MURRAY ST., NEW YORK

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Antirrhinums

Plants that were propagated early and are now in 4-inch pots will make a fine crop for the Christmas trade if planted out in a bench now. Use a tolerably rich soil, such as would grow good carnations, and set them twelve inches apart each way. They are sometimes planted 8x8 and 10x10, but if you want to give the plants justice allow them the wider distance. Be careful not to plant too deeply, and give a good watering around each plant. On hot sunny days light sprayings overhead will prevent wilting and prove beneficial. Air the house freely. It will be found that pink is far the best selling color; next to this, white and yellow. The scarlet, crimson and variegated shades have only a limited number of admirers. Of course, no set minimum temperature can be maintained for a while, but in winter 45 to 48 degrees should not be exceeded at night.

Beds of Adiantums

Beds of this fern that have been cut from and are now in a denuded condition will require but very little water until the new fronds begin to show numerously. Give them sufficient shade so they will not burn or lose their color. When you have a fine crop of fronds be very careful during cloudy or chilly weather not to water too much. It is safer to allow the soil to become rather dry and keep the surface well stirred so as not to endanger the crop of fronds. They will be greatly benefited by a mulch of from a half to an inch of two parts of cow manure that is well rotted to one of good loam. The crowns soon work above the surface and require a top dressing after each crop.

Chrysanthemums

Give plenty of fresh air day and night with an abundance of moisture, maintained by watering the soil, syringing the plants several times daily and by wetting down walks, which induces congenial humidity throughout the house. Keep up a diligent fight against the black aphid. Plants that are destined to figure in the exhibitions should have their last shift before the close of this month. A good compost is—to one ordinary cart load of rose soil that contains at least one-third of cow manure add from one-third bushels of pulverized sheep manure, half a bushel of soot and about sixty pounds of fine ground bone, thoroughly mixed. This will produce leaves, stems and flowers full of vigor. In

potting be very careful to have the drainage perfect for without it you cannot have good growth.

Orchids

Phalaenopsis comes from a much warmer part of the globe than cattleyas and enjoys a warm, moist atmosphere, but air, especially from the bottom, should always be afforded with the temperature over 72 degrees. Avoid dry atmosphere and there will be practical freedom from the attacks of spider and thrips. As these handsome orchids pass out of flower, rebasketing or repanning will need attention. If they are grown in deep, cylindrical baskets and the wood is much covered with active roots they are sure to be injured. A far better plan is to place the receptacles in larger ones, filling up any intervening space with crock and charcoal and covering the surface with growing sphagnum. These orchids like plenty of moisture, so keep the air charged with plenty of moisture by several dampings down.

Rambler Roses

Copious watering and daily heavy syringing must be given the rambler roses. We often get our hottest weather at the end of July, and if the tender and unripened shoots of these roses suffer for water mildew will set in which much weakens the growth and the strength of the eyes which will now be forming. Crimson Rambler and other ramblers want watchful care just now. That is, those grown in pots under glass during summer. We then have canes and eyes that are bound to give a truss of bloom at every eye. By plunging the pots in a bench where there is some soil they will retain the moisture better. By the end of August they will have made all the growth desirable and can be stood outdoors to ripen up their wood. See that they have plenty of room so the sun will reach through them. Give a good syringing early in the morning and right after dinner.

Reminders

Stake or otherwise support dahlias where necessary.

Remove annuals from the herbaceous border as fast as they go out of flower.

Lift montbretias now so as not to disturb in the fall when they are making their useful roots.

All flowering shrubs, such as Althea, Deutzia, Exochorda, Hydrangea, Spiraea, Viburnum, Weigela, etc., can now be freely propagated from cuttings of semi-ripened wood.

Next Week:—Callas; Care of Gardenias; Cinerarias; French Bulbs; Harlequin Lilies; Reminders.

CONVENTION NUMBER

HORTICULTURE'S ANNUAL S. A. F. CONVENTION NUMBER WILL BE ISSUED ON AUGUST 19, 1916. ITS ACCOUNT OF THE HOUSTON PROCEEDINGS WILL BE EAGERLY LOOKED FOR BY THOUSANDS OF READERS.

YOUR ADVERTISEMENT

IN THIS SPECIAL ISSUE WILL COMMAND THE ATTENTION OF
THE BEST TRADE

SEND
NO COPY
NOW

MAKE
A
STIR

HORTICULTURE

VOL. XXIV

JULY 22, 1916

NO. 4

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.**147 Summer Street, Boston, Mass.**

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES:

Per Inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—The Gantor Avocado.	
NOTES ON CULTURE OF FLORISTS' STOCK—Antirrhinums—Beds of Adiantums—Chrysanthemums—Orchids—Rambler Roses—Reminders— <i>John J. M. Farrell</i>	101
SOCIETY OF AMERICAN FLORISTS—Program of Thirty-Second Annual Convention—New York to Houston—Chicago to Houston—The Call of the South— <i>Otto Lang</i>	103-104
AMERICAN SWEET PEA SOCIETY—Annual Meeting and Exhibition—List of Awards—The Banquet—Some of the Visitors.....	105-106
INTERNATIONAL FLOWER SHOW, NEW YORK....	106
CLUBS AND SOCIETIES—American Carnation Society Jubilee Medal, Illustrated—Florists' Telegraph Delivery	104
Vegetable Growers' Convention, Chicago Committees	
American Dahlia Society—Park Superintendents' Annual Convention—Coming Exhibitions—Westchester and Fairfield Horticultural Society—St. Louis Florist Club meeting—Nassau County Horticultural Society	108
New Haven County Horticultural Society—Holyoke and Northampton Gardeners' and Florists' Club—New York Florists' Club—Club and Society Notes..	125
OBITUARY—John W. Poehlmann, portrait—John G. Fleming—Harry Hammock—Edward M. Bogie—L. A. King—Albert Fregosi	108
SEED TRADE—One Week's Imports.....	109
NEWS ITEMS FROM EVERYWHERE:	
Chicago, Philadelphia	109
Washington, Pittsburgh, Boston, New York.....	111
OF INTEREST TO RETAIL FLORISTS:	
New Flower Stores.....	114
Flowers by Telegraph.....	114
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago, Cincinnati, New York, Philadelphia, Pittsburgh, St. Louis, Washington.....	117
DURING RECESS—Buffalo Florist Club—Albany Florists' Club	119
MISCELLANEOUS:	
The Gantor Avocado.....	104
Flowering Plant Group—Illustration.....	106
Flower Show at Southampton, N. Y.....	106
Catalogue Received	111
Kasting Company Burnt Out.....	119
A Phenomenal Sweet Pea—Illustrated.....	119
Visitors' Register	119
Greenhouses Building or Contemplated.....	126
New Corporations—Patent Granted.....	126

Prize schedule misunderstandings

Perhaps it will never be possible to so word a prize schedule that the donor of a premium, the intending exhibitor, the manager, and the judges, shall all interpret its requirements and its restrictions in exactly the same way. Yet it is very

desirable that we should always aim to make the wording of these documents so explicit that nothing is left to conjecture and no trace of vagueness or ambiguity can be found from beginning to end. We have often called attention to this subject because we cannot remember ever having seen a prize schedule of any considerable size in which flaws did not crop out somewhere and the schedule for the sweet pea show at Bar Harbor last week was no exception. Judges have no option, but must rigidly adhere to the prescribed conditions—as they understand them, not as they are understood by others—and when it happens that the exhibitor has read them differently the judges have no alternative but disqualification, and this means great disappointment always and resentment sometimes.

The danger in changing show dates

The American Sweet Pea Society has acted wisely in adopting the rule that the date for its annual exhibition after having been once decided upon and arranged for shall stand, regardless of the condition of the crop due to weather or other conditions in any particular section of the country. As a national organization looking for exhibits from localities widely separated and diverse as to climatic conditions they cannot afford to juggle with exhibition dates when same have been generally announced, to accommodate the growers in any particular locality as in doing so there is always the liability of appearing to discriminate against exhibitors from some other section, or even some individual exhibitors in the same locality, where everything is in readiness at the date originally specified and postponement would be an injustice. With affairs of only local scope the shifting of show dates to meet the requirements of exhibitors may be excusable but with a national organization drawing its support from exhibitors widely scattered and working under varying climatic conditions there is always the danger of unfairness to someone when a show date is changed at the last moment, and the resultant disappointment and the unfriendliness thus engendered may not be easily overcome.

Forearmed for emergencies

Edwin Jenkins in his remarks at the Bar Harbor banquet last Saturday night touched upon a subject which, possibly more than any other one factor affects the future of special sweet pea exhibitions. He intimated in a most positive and unequivocal manner that in his opinion the limitations and contingencies which have so often been charged by growers as responsible for their crop failures are really avoidable and that the weather pranks and vicissitudes which have at times wrecked the expectations of intending exhibitors are not so formidable that they can not usually be overcome. Mr. Jenkins has so often walked up smiling and successful with the goods, when other growers have fallen by the wayside, that a good measure of plausibility must be conceded to what he has so publicly claimed. If, as he declares, and seems to have demonstrated, a certain amount of judicious protection and attentive care on critical occasions is all that is necessary for the saving of a crop of exhibition sweet peas, then the disappointed grower's claim on our sympathy becomes very weak and the less he has to say about his failure the better for him. The gist of Mr. Jenkins' theory as applied to sweet pea exhibiting is that "where there's a will there's a way." Who will dispute him? HORTICULTURE'S columns are open always for the discussion of a topic so important.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

Thirty Second Annual Convention, Convention Hall, City Auditorium, Houston, Texas, August 15, 16, 17, 18, 1916

Secretary's Address After July 15, 1001 Main Street, Houston, Texas.

OFFICERS FOR 1916.

President—Daniel MacRorie, San Francisco, Cal.

Vice-President—R. C. Kerr, Houston, Tex.

Secretary—John Young, New York, N. Y.

Treasurer—J. J. Hess, Omaha, Neb.

Directors.

Appointed—J. J. Hess, Omaha, Neb.; J. A. Peterson, Cincinnati, O.; William R. Nicholson, Framingham, Mass.; W. J. Keimel, Elmhurst, Ill.; Angelo J. Rossi, San Francisco, Cal.; Charles L. Baum, Knoxville, Tenn.; Washington Representative, Wm. F. Gude, Washington, D. C.

Under affiliation to serve one year—S. S. Pennock, president American Rose Society; Joseph H. Hill, president American Carnation Society; Irwin Bertermann, president Florists' Telegraph Delivery; Henry Weston, president New York Florists' Club; George Burton, president Florists' Club of Philadelphia; Eric James, president Pacific Coast Horticultural Society; E. G. Hill, president Florists' Hall Association of America; Alex. Henderson, president Chicago Florists' Club; Ex-Officio, Patrick Welch, Boston, Mass.

National Flower Show Committee.

George Asmus, chairman, Chicago, Ill.; Thomas Roland, Nahant, Mass.; Chas. H. Totty, Madison, N. J.; Adolph Farenwald, Roslyn, Pa.; Wm. P. Craig, Philadelphia, Pa.; Patrick Welch, Boston, Mass.

Botanist—John Dunbar, City Hall, Rochester, N. Y.

Pathologist—George L. Peltier, University of Illinois, Urbana, Ill.

Entomologist—Dr. T. F. Headlee, N. J. Agricultural Experiment Station, New Brunswick, N. J.

Superintendent of Trade Exhibition—John Young, 53 W. 28th St., New York, N. Y.

Superintendent of Convention Garden—C. L. Brock, Houston, Tex.

Sergeant-at-Arms—Paul M. Carroll, Houston, Tex.

Committees.

TARIFF AND LEGISLATION—W. F. Gude, chairman, Washington, D. C.; James McHutchison, New York; *Wm. F. Kasting, Buffalo, N. Y.; Wm. H. Siebrecht, Jr., Long Island City, N. Y.; Ralph M. Ward, New York; Julius Roehrs, Rutherford, N. J.

SCHOOL GARDENS—Benjamin Hammond, chairman, Beacon, N. Y.; Irwin Bertermann, Indianapolis, Ind.; Gust. X. Amrhyn, New Haven, Conn.; Michael Barker, Chicago, Ill.; Leonard Barron, Garden City, N. Y.

AMENDMENTS TO BY-LAWS—Theodore Wirth, chairman, Minneapolis, Minn.; W. A. Manda, South Orange, N. J.; John F. Huss, Hartford, Conn.

PUBLICITY—Irwin Bertermann, chairman, Indianapolis, Ind.; J. C. Vaughan, Chicago, Ill.; Ed. P. Tracey, Albany, N. Y.; Henry Penn, Boston, Mass.; Ralph M. Ward, New York, N. Y.

DEVELOPMENT OF AMERICAN PRODUCTS—H. P. Knoble, chairman, Cleveland, O.; C. W. Ward, Eureka, Cal.; E. H. Wilson, Boston, Mass.

NATIONAL CREDIT AND COLLECTIONS BUREAU—F. H. Traendly, chairman, New York, N. Y.; *W. F. Kasting, Buffalo, N. Y.; S. S. Pennock, Philadelphia, Pa.; N. A. Benson, Denver, Colo.; Fred A. Danker, Albany, N. Y.; Hans Plath, San Francisco, Cal.; Geo. W. Smith, Cleveland, O.; Thos. Roland, Nahant, Mass.; F. L. Atkins, Rutherford, N. J.

PUBLICATIONS—J. A. Peterson, chairman, Cincinnati, O.; Chas. L. Baum, Knoxville, Tenn.; R. C. Kerr, Houston, Tex.; Hans Plath, San Francisco, Cal.; Patrick Welch, Boston, Mass.; W. J. Keimel, Elmhurst, Ill.; Samuel Murray, Kansas City, Mo.; Theo. Wirth, Minneapolis, Minn.

TEXAS ADVISORY COMMITTEE—R. C. Kerr, chairman, Houston; Henry Greve, Dallas; L. J. Tackett, Fort Worth; Chris. Houser, San Antonio; Louis Oesch, Dallas; F. W. Hensel, College Station; T. J. Wolfe, Waco; J. E. McAdam, Fort Worth; H. O. Hannah, Sherman; Bird Forrest, Waxahachie; E. E. Stone, Dickinson.

Judges for the trade exhibition to be appointed later. Judges for the Convention Garden to be appointed later.

*Deceased.

PROGRAM.

First Day, Tuesday, August 15.

2.00 P. M.—Opening Exercises in Convention Hall; Convention called to Order by Vice-President R. C. Kerr; Invocation, Rev. W. S. Jacobs; Address of Welcome, Hon. Ben Campbell, Mayor of Houston; Response, Angelo J. Rossi; President Daniel MacRorie's Address; Reading Minutes of Executive Board; Report of Secretary; Report of Treasurer; Report of Washington Representative; Reports of Committees; Reports of State Vice-Presidents.

Action on Proposed Amendments to Constitution and By-Laws.

Amendment No 1 provides for the selection of meeting place two years in advance. Nos. 2 and 3 provide for the election of two directors annually instead of their appointment by the president.

No. 4 regulates the admission of representation from affiliating societies to the Executive Board.

No. 4 regulates the appointment of Washington representative.

No. 5 provides rules for the conduct of the balloting at annual elections.

Nos. 7 and 8 are automatic changes in harmony with the foregoing.

No. 9 provides for standing committee on convention garden.

No. 10 relates to the appointment and duties of the publicity committee.

No. 11 relates to the appointment and duties of the committee on American horticultural products.

No. 12 gives the executive committee power to change date of annual meeting.

Consideration of invitations for next place of meeting or places of meetings if the amendment to by-laws is adopted.

Evening Session—August 15th.

8.30 P. M. Balloting for meeting place for 1917 and also for 1918 if amendment is adopted. Voting takes place at Rice Hotel.

8.30 P. M. Reception to President MacRorie at the Rice Hotel. Music; dancing; refreshments. Strictly informal.

Second Day, Wednesday, August 16—Morning Session.

9 A. M. Annual meeting of The Ladies' Society of American Florists, and visit to the market and shopping district.

9 A. M. Meeting Florists' Telegraph Delivery.

10 A. M. Session S. A. F. and O. H. Report of the committee on the president's address. Discussion. Report of the National Flower Show committee. George Asmus, chairman. Discussion. Nomination of officers for 1917.

Afternoon—Second Day.

No business sessions.

3 P. M. Automobile ride over the city for ladies and gentlemen. Judging of trade exhibits. Judging exhibits Convention Garden.

Evening—Second Day

Official opening of our Convention Garden. Special moving picture show for S. A. F. members at Queen Theatre. Band concert at Sam Houston Park.

Third Day, Thursday, August 17—Morning Session

10 A. M. Election of officers for 1917. Polls open 10 A. M. Question Box. Deferred business.

Report of the judges of the Trade Exhibition and the Convention Garden. Ladies' natatorium party, followed by refreshments on the Rice roof garden.

Noon.

Rotary florists and all S. A. F. members lunch with the Rotary Club, Rice Hotel, roof garden.

Afternoon and Evening

Trip to the battle grounds down the Ship Canal by boat, which leaves Harrisburg at 3 P. M., reaching Harrisburg by trolley. Barbecue served on the battle grounds. A number of sports for the members. Return trip by boat during the evening.

Friday Morning, August 18.

BUYERS' DAY." Spend the morning among the Trade Exhibits and Con-

vention Garden. Bowling Party for Gentlemen at Turner Hall.

Friday Afternoon.

Leave 2 P. M. for Galveston by Interurban, special cars. Dip in the surf. Dinner at the Hotel Galvez at 8 P. M. Special cars return to Houston 11 P. M.

NEW YORK TO HOUSTON.

The transportation committee of the New York Florists' Club has selected the following route for those who intend to attend the S. A. F. Convention in Houston, from August 15 to 18:

The S. S. "Momus" will leave New York on Wednesday, August 9, arriving at New Orleans on Monday, August 14, whence the journey to Houston by train, the Sunset Limited, is only 11 hours. The rate will be \$80 to \$83 for the round trip from New York City to Houston, which covers the trip by steamer to New Orleans, train to Houston, then by all rail returning. Those who desire may also return by boat. The rate includes berth and meals on steamer, but not on trains.

As this is evidently the route favored by most of those who intend to go, it is hoped that all members of the New York Florists' Club and friends from the eastern section of the country will travel in this party.

The transportation committee is composed of Chas. H. Totty, chairman, John Young, Wm. C. Rickards, Jr., and J. R. Lewis.

As the steamship traffic on this line is heavy at this season, it is necessary that all reservations be made well before August 1. Make your reservations at once if possible. Further information will be gladly furnished by J. R. Lewis, Secretary, Transportation Committee.

CHICAGO TO HOUSTON.

Greatly Reduced Round-Trip Rates.

After showing considerable lack of interest in the coming convention of the Society of American Florists, the railroad organizations identified with transportation between Chicago, St. Louis, Kansas City, and Houston, have awakened and at the last moment given our National Society the consideration to which it is entitled, granting greatly reduced round-trip rates to the Convention City as follows:

Chicago to Houston and return..... \$46.65
St. Louis to Houston and return..... 31.65
Kansas City to Houston and return... 32.00

The Chicago party occupying special cars will leave via the Wabash Midnight Banner Express at 11.55 P. M., Sunday, August 15, and arrive in St. Louis at 7.40 Monday morning. The special cars will be attached to the Iron Mountain Texas Limited, leaving at nine o'clock due Houston, Tuesday, August 15, at 2 P. M., in time for the opening session.

Round trip tickets from Chicago going August 12th or 13th, are good for 25 days. The charges for Pullman sleepers from Chicago are as follows: Double lower berth, \$6.75; upper berth, \$5.40, drawing room, \$24.

For further details, Pullman reservations, and other particulars, address H. L. Purdy, care of Wabash Railway Co., 808 Edison building, Chicago.

MICHAEL BARKER,
Chairman Transportation Committee,
Chicago Florists' Club.

THE AMERICAN CARNATION SOCIETY JUBILEE MEDAL.



A picture of the American Carnation Society's Silver Jubilee Medal appears herewith. This is a special medal and was awarded to each winner of a first premium in the competitive carnation classes at the National Flower Show in Philadelphia last March.

Fifteen of these medals were awarded as follows:

S. J. Goddard, Framingham, Mass.; The E. G. Hill Co., Richmond, Ind.; Strafford Flower Farms, Strafford, Pa.; J. W. Minott & Co., Portland, Me.; E. F. Lieker, Lansdown, Pa.; Cottage Gardens Co., Queens, N. Y.; A. A. Pembroke, Beverly, Mass.; "Strouts," Hildeford, Me.; Wm. Kleinheinz, Ogontz, Pa.; W. L. Ellis, Bryn Mawr, Pa.; Wm. Graham, Greenwich, Conn.; Mrs. Wm. Austin, Rosemont, Pa.; A. Harvey & Sons, Brandwine Summit, Pa.; Countess Eulalia, Elkins Park, Pa.; W. E. Leuk, Halifax, N. S.

THE CALL OF THE SOUTH.

The Mexican situation was called to my attention so often on my short visit to St. Louis and Kansas City, that I take this opportunity to explain and answer some of the questions asked me regarding the war with Mexico and the effects it will have on the S. A. F. & O. H. convention in Houston.

First of all there is no war and we do not expect any. Second, should there be real war between the U. S. and Mexico, bear this in mind, that the nearest point to the war zone is nearly 400 miles and at best no hostile Mexican army or bandits could come 400 yards into Texas before some Texas ranger or U. S. soldier would name him "Dennis."

Practically all the government troops have been moved to the border and all traffic is at normal and there is no reason why anyone interested in the great convention, the first ever held in the South, should not be attended by the largest delegation from every state ever sent out to a National Florists' Convention.

The Texas Florists greet you, the Houston Florists will meet you and will make your stay pleasant and long to be remembered.

While we have sunshine in Texas and it gets warm, (will here use an expression of a Nebraska soldier) "It is hot out here but we always have a breeze and therefore do not perspire." Can you say more of your climate? Enough said, come to Texas, to Houston and you will want to come again.

OLD LANG.

THE FLORISTS' TELEGRAPH DELIVERY.

The annual meeting of The Florists' Telegraph Delivery Association will be held in connection with the S. A. F. Convention at Houston, Texas, on Wednesday, August 16, 1916, at 10 A. M.

ALBERT POCHELON, Sec.

THE GANTOR AVOCADO.

Everyone who makes a living from the soil might appreciate such a tree as the Gantor avocado, in Whittier, near Los Angeles, Cal. In no year since it began bearing has it brought its owner, H. A. Woodworth, an income of less than \$2,000, and the annual average is \$3,000. Ordinarily the proceeds from avocado growing range from \$400 to \$2,000 per tree.

The avocado is more generally known as the "alligator pear." It is about the size of the Bartlett pear, and very dark green in color. The flesh is about the consistency of a banana and is prized highly for salads.

The Gantor tree was planted eleven years ago and has been the most prolific bearer in Southern California. It produced 5400 fruits last year, which sold at prices averaging fifty cents each. Cutting from the tree adds materially to its annual yield.

Until a short time ago the famous producer was insured for \$30,000, but when a raise in premium rates was demanded because of the war schedules, the policy was allowed to lapse. While insured the tree was surrounded by a high lattice fence, a provision demanded by the insurance company. The fence recently was removed, as horticulturists were of the opinion it might have a bad effect on the fruit yield.

Avocado culture is a comparatively new industry in Southern California. Because of a strict quarantine imposed by the government, seeds, fruits or trees from Hawaii and Mexico may not be utilized in increasing the yield. Future crops must depend on home propagated trees. Trees yield from 500 to 3000 fruits each. There are at present 7000 trees planted in orchard form. It is estimated that this year there will be 20,000 trees planted from the 36,000 nursery stock known to exist. These will come into bearing in about four years.

AMERICAN SWEET PEA SOCIETY

The annual meeting and exhibition of the American Sweet Pea Society was held in Bar Harbor, Me., on Saturday and Sunday, July 15 and 16. The attendance was considered very good for a location so remote from the principal centres. There were fifty or more in attendance from outside of the state. The exhibition was a disappointment as to extent but in quality the plants and flowers were superlatively good and the arrangement of the hall was excellent, presenting a well-balanced picture as a whole. The weather had been very cruel to the local growers, fog and sudden high temperature having denuded the plants of the buds that were expected to bloom for the show and make the display an unprecedented success. Newport, R. I., experts, who had also been counted upon as large contributors to the display and the competition, had been hit by the erratic weather, as well, and not a single sweet pea came from that quarter. Lenox, Mass., saved the day, Messrs. Ed. Jenkins and S. W. Carlquist both staging large exhibits of superb beauty.

W. Atlee Burpee's display was also marvelously fine and its admirable arrangement brought much admiration and many compliments for George W. Kerr who here demonstrated not only his knowledge of sweet peas but his artistic skill in showing them to best advantage. The Burpee flowers were grown locally for the exhibition by A. E. Thatcher of the Mt. Desert Nurseries.

Possibly the most impressive feature of the show, and one that should be a prominent part of every sweet pea show was the array of trained plants in tubs. These were from eight to ten feet high and well furnished with blossoms. They were shown by Mt. Desert Nurseries, and John Stalford, the florist. The best specimens in the Mt. Desert Nurseries' collection were Illuminator, orange, Hercules, pink, Moneymaker, white, and Florence Nightingale, lavender. Mr. Stalford's best were Royal Purple and Hercules.

The Burpee flowers were arranged in terraced vases and tall columnar clusters of tubes, all displayed in groupings of self colors against a dark velvet background and interspersed with the delicate tracery of sprays of *Eulalia gracillimum*. It won the silver cup offered by C. C. Morse & Co. of San Francisco, Cal. The following is a list of a few of the outstanding varieties shown in this great collection:

Fiery Cross, Cherub, The President, Margaret Atlee, Floradale Fairy, Robt. Sydenham, Irish Belle, King White, Constance Hinton, Thos. Stevenson, Mrs. Routzahn, Doris Usher, Margaret Madison, Orchild, Florence Nightingale, King Alfred, Alfred Watkins and Vermilion Bell etc.

The Boddington Challenge Cup and cash prize of \$25 was won for the second time by Edwin Jenkins, gard. for Garand Foster, Lenox, Mass., and the

cup thus becomes his permanent property. This class called for collection of 25 varieties not less than 20 stems to a vase, shown with sweet pea foliage only. The best varieties shown in this collection were the following:

Constance Hinton, white; Edna May, improved, white; Hercules, dark pink; Lady Evelyn Eyre, light pink; Floradale Fairy, cream; Stumpfoot Crimson, crimson; Scarlet Emperor, scarlet; Edward Cowdy, orange; Blue Monarch, dark blue; Alfred Watkins, light blue; Don Alva, lavender; Mrs. Cuthbertson, bicolor; King Manoel, maroon.

The large stage was banked with brilliant masses of larkspur, astilbe, spiraea, foxgloves, sweet williams, lilies, hemerocallis, gypsophila, peonies and other hardy perennial flowers from Mt. Desert Nurseries. In front on the main floor was placed the sweet pea exhibit by the same exhibitor. Here the flowers were cut in long vines with foliage and buds and shown in separate colors in pyramidal branching bamboo stands with telling effect. The leading varieties in this collection were Florence Nightingale, lavender, Carene, orange, Lilian, cream pink, President, scarlet, and Royal Purple.

The silver cup offered by the town of Eden for the best display on a table 3 x 10 ft. was won by Malvern Greenhouses, John H. Stalford, prop., with a fine lot of sweet peas arranged with gypsophila and elegant taste shown in the placing of colors.

R. & J. Farquhar sent a grand group of cut blooms of their new Regal lily, which made a fine show and filled the hall with perfume.

LIST OF AWARDS.

Section A, for Private Gardeners. Grand Foster, gard. Ed. Jenkins, Boddington Cup for collection, Weeber & Don prize for 100 sprays arranged for effect, Dreer's prize for Constance Hinton, Farquhar's prize for 6 varieties, Mrs. Robt. Winthrop, gard. S. W. Carlquist, Breck's prize for 3 vases, Dreer's 2nd prize and Farquhar 2nd prize.

Section B, Private Gardeners and Amateurs. S. W. Carlquist, Burpee Cup for 12 vases and Malvern Greenhouses' 2nd prize for Hercules, Ed. Jenkins, Stump & Walter's prize for 6 vases, Watkins & Simpson's prize for 6 vases and Malvern Greenhouses' prize for Hercules. Mrs. John G. Stalford, Bunyard prize for most novel arrangement and Mt. Desert Nurseries' prize for table decoration. Mrs. H. Hinkle, Mrs. A. M. Coats' Cup for table decoration, Mrs. A. E. Thatcher, Mrs. Coats' 2nd prize.

Section C, Amateurs only. Miss Isabel Miller captured six 1sts. and two 2nds.; B. B. Lyon two 1sts.

Sec. D, Open and Miscellaneous. W. Atlee Burpee & Co., C. C. Morse & Co.'s Cup for display, John Stalford, Jerome B. Rice Co.'s prize for 1916 novelty, S. W. Carlquist, Rice Co.'s 2nd prize, Ed. Jenkins Rice Co.'s 3rd prize, Mt. Desert Nurseries, Lord & Burnham Co.'s gold watch for best arranged display.

Sec. E, Open. John Stalford, Anson prize for best tub of any white variety, Mrs. Carnegie prize for tub any lavender variety, Town of Eden prize for display on table 3 x 10 ft., N. Y. Florists' Club's prize for 20 sprays pink, and five 2nds. and one 3rd. Mt. Desert Nurseries, T. J. Grey Co.'s prize for best tub of any pink variety, Hinkle prize for best tub of any scarlet and two 2nds. Ed. Jenkins, Fottler Fiske, Rawson prize for 20 sprays white, Northeast Harbor Nurseries' prize for 20 sprays scarlet, N. Y. Florists' Club prize for 20 light pink, N. Y. Florists' Club prize for 20 carmine, G. & F. Club of Boston prize for 25 blue, and for 20 picotee edged, 20 striped red, 20 striped blue, 20 bicolor, 20 any other color, 20 orange and 20 yellow, also one 2nd and one 3rd. S. W. Carlquist, G. & F. Club of Bos-

ton prize for 25 sprays native, 20 blue, 20 maroon, 20 orange, and nine 2nds and one 3rd.

Ed. Jenkins won Mt. Desert Nurseries' prize for best vase of peas in Class 6 to 21 with Don Alva. Also Garden Magazine prize for most 1sts. in Classes 6 to 21.

Sprays: R. & J. Farquhar, Collection of cut flowers, scale awarded, cut flowers of Mt. Desert Nurseries, Collection of cut flowers of flowers, honorable mention.

THE ANNUAL MEETING.

The formal opening of the meeting and exhibition took place at 3 P. M. on Saturday, July 15, with a good-sized audience present. Dr. W. M. Leeds, president of the Bar Harbor Horticultural Society, welcomed the Sweet Pea Society to Bar Harbor in a short address well spoken and appreciatively received. Wm. J. Stewart, of Boston, followed briefly, extolling the grandeur and beauty of Mt. Desert. Nature's masterpiece, the gem of the entire Atlantic coast, and complimenting the Sweet Pea Society on the work it had done for its favored flower. Chas. H. Totty, of Madison, N. J., responded on behalf of the visitors, expressing the keen pleasure enjoyed and gratitude for the many hospitalities received on this memorable visit.

Announcement was made that the routine business meeting would convene at 10 A. M. on Sunday, and adjournment was made to accept an auto ride of 22 miles through the picturesque forest, crag and ocean scenery of Mt. Desert Island.

THE BANQUET.

In the evening an elaborate banquet was enjoyed at the Malvern Hotel on invitation extended by John H. Stalford and A. E. Thatcher, of Mt. Desert Nurseries.

The "post-prandial exercises" were opened by J. H. Stalford, who welcomed the guests cheerily, and in the course of his remarks threw down the gauntlet for future rivalry to Messrs. Jenkins and Carlquist, who had come up from Lenox, Mass., and worthily captured so many proud honors.

Secretary H. A. Bunyard was next introduced as the "father of the Sweet Pea Society." Mr. Bunyard eloquently dilated on the beauties of the flower he loves so well and the good record of the society devoted to its interests and expressed the thanks of the society for the lavish entertainment provided.

A. E. Thatcher gave a little talk on his experience as manager of the show stating that the gate receipts had been unexpectedly good, and cordially greeted the exhibitors and other visitors. Edwin Jenkins, referring to the effect of untoward weather conditions upon the exhibition, declared it not an impossibility to have sweet peas ready for the exhibition table at scheduled time if the grower will but use judgment and care to overcome unfavorable conditions. He called attention to the fact that men and trotting horses are provided against exposure by wind shields, and declared that his neighbor Carlquist, who had made such a fine showing here had

fanned his peas for several hours in a critical period in order to save them.

Mr. Carlquist followed with a strong plea for the selection of Boston as the place for the next meeting. W. J. Stewart suggested that the society might benefit by selecting some other city, such as Worcester, Mass., which had not yet been visited.

A rising vote of thanks was extended to Messrs. Stalford and Thatcher.

BUSINESS MEETING.

The Society convened at 10.30 A. M. on Sunday, July 16, in the Casino, Bar Harbor, Me. It was a well-attended and seriously attentive meeting, about forty being present during the session. The reading of the address of President Gray, who was absent, the report of Secretary Bunyard, a paper written by David Burpee and Prof. Beal's report on the trial grounds at Cornell was waived and the report of the treasurer, A. T. Boddington, alone was acted upon. It appeared from this report that the Society's assets showed an amount of \$385.48 over liabilities, but the assets consist largely of vases and uncollected membership dues. Secretary Bunyard explained that bills had just been sent out to members and payment urged, but it was the opinion of several speakers that the financial condition of the Society required immediate attention and Messrs G. W. Kerr and W. A. Sperling were constituted a committee to audit the treasurer's report and report recommendations to the executive committee not later than September 1. The discussion on ways and means brought out mutual challenges from C. H. Totty and J. H. Stalford, the result being that these gentlemen have volunteered to raise a subscription fund of \$250.00 each within the next thirty days to help the Society over the stringency.

Officers were elected as follows: George W. Kerr, of Burpee's, Philadelphia, president; Edwin Jenkins, Lenox, Mass., vice-president; H. A. Bunyard, New York, secretary; William Sim, Cliftondale, Mass., treasurer; W. A. Sperling, New York and William Gray, Newport, succeed Messrs. W. H. Duckham and Wm. Sim on the executive committee. A warm vote of thanks was given to A. T. Boddington for his loyal service as treasurer for several years.

Boston was unanimously favored as the place for the next meeting and exhibition, and a vote was passed so recommending to the executive committee. The first Saturday following July 4 was chosen as the date most advisable and it was voted that it be the policy of the Society hereafter to adhere rigidly to this regular date, regardless of local weather or crop conditions.

A rising vote of thanks was given the Bar Harbor Horticultural Society and then the meeting adjourned.

SOME OF THE VISITORS.

Among the visitors present were the following named:

George W. Kerr, Philadelphia; W. A. Burpee & Co., Phila.; H. A. Bunyard, New York; Henry Weston, Lenox, Mass.; Wm. Sim, Cliftondale, N. Y.; C. H. Totty, Boston; J. H. Stalford, N. Y.; J. T. Rogers, Lenox, Mass.; J. L. Russell, Agnes Thompson, Mrs. Baker, A. E. Reed, George Holliday, Boston.



FLOWERING PLANT GROUP.

By W. B. Thompson, gardener R. M. Johnson, at New York International Flower Show.

Robert Kift, Phila., Pa.; V. T. Sherwood, Charlestown, N. H.; J. Harrison, Duck, New York; S. J. Carlquist, Lenox, Mass.; E. Jenkins, Lenox, Mass.; D. T. Roy and Mrs. Roy, Marion, Mass.; J. S. MacFarland, Durham, N. H.; A. C. Griffin, Meriden, Conn.; Thos. Pegler, Brunswick, Me.; Wm. J. Stewart, Boston; Herman Bartsch, Waverley, Mass.; Wm. Nicholson, Framingham, Mass.; Eben Holmes, So. Orange, N. J.; Herbert Clark, Manchester, Mass.; Mary K. Rogers, Readville, Mass.; Peter M. Miller, Boston; T. H. Meade, Boston; Joseph Coker, W. Valley, Mass.; Mrs. J. F. Flood, Montvale, Mass.; J. F. Briery and Mrs. Briery, Boston; John D. Lunt, Natick, Mass.; Jas. Methven, Readville, Mass.; W. N. Craig, Brookline, Mass.; George Melvin, Framingham, Mass.; Julius Heurlein, So. Braintree, Mass.; P. Donohue, Boston; William Sim, Cliftondale, Mass.; Frank Murray, R. A. J. Edgar, & Co., Boston; George Gordon, Beverly, Mass.; J. Miller, West Lynn, Mass.; Frank Edgar, Waverley, Mass.; Donald McKenzie, Brookline, Mass.; Robert Cameron, Cambridge, Mass.; J. L. Russell, Jr., Jos. Breck & Sons, Boston; H. E. Fiske, Boston; Jas. Armstrong, Dorchester, Mass.; J. L. Russell, Agnes Thompson, Mrs. Baker, A. E. Reed, George Holliday, Boston.

INTERNATIONAL FLOWER SHOW NEW YORK.

There was an enthusiastic meeting at the Manhattan Hotel, Monday, July the 10th, of the joint committee representing the Horticultural Society of New York and the New York Florists' Club. Organization of the committee was completed by the election of T. A. Havemeyer, chairman; John Young, secretary and business manager; Frederic R. Newbold, treasurer.

The date on which the show will be held is March 16th to 23rd, 1917, and the place will be the Grand Central Palace, Lexington Avenue and 46th street, where all recent large flower shows in New York have been held.

Secretary Young was authorized to proceed at once with the sale of trade space and to make preparations for the official souvenir programme.

Charles H. Totty, F. R. Pierson, John Canning, James Stuart, William H. Duckham, George E. M. Stumpp, L. J. Reuter, Julius Roehrs and Fred L. Atkins were appointed a committee to prepare a preliminary schedule.

Many applications for space in the trade section have already been received at the secretary's office, and the

prospects are that there will not be sufficient space in the plans as outlined to satisfy all the demands that will be made for same. It may be absolutely necessary to secure additional space on the third floor, but the arrangements made at present call for the use of the main floor and mezzanine floor only.

JOHN YOUNG, Sec'y.

FLOWER SHOW AT SOUTHAMPTON, N. Y.

The annual Flower Show at Southampton, L. I., N. Y., will take place on July 26 and 27, and promises to be the greatest event of the season. People of well known social standing, who have large estates with gardens and greenhouses and display more than ordinary interest in plants and flowers, flock to this show from various parts of the country.

There have been many prizes contributed for choice blooms of all sorts, ferns, palms, vegetables and decorations by the cottagers, etc. The groups for prizes are placed in a large tent on the spacious lawn of the new schoolhouse grounds. Outside of this tent will be placed other tents for the commercial displays, and between the tents will be placed groups of evergreens, rock gardens, rose gardens and whatever out-door plantings may be set up by commercial firms.

HYDRANGEAS FOR SALE

Twenty five plants in tubs ranging from 1 1/2 to 2 1/2 ft.; 10 to 50 blooms on a plant, just coming into flower. Will sell separately or in lot. Price on application to

H. R. COMLEY

6 Park Street,

Boston, Mass.

CANNAS, 3 Inch Pots

In the very best varieties—
\$3.00 per 100—\$25.00
per 1000

ROMAN J. IRWIN

108 W. 28th St., New York.

HOLLAND GROWN BULBS

HYACINTHS, TULIPS, NARCISSUS, ROSE BUSHES, ETC.

Write for information about the *Mammoth Auction Sales* that we will hold during the coming Fall Season, of Holland's latest and choicest varieties

THE MacNIFF HORTICULTURAL COMPANY

52, 54 and 56 Vesey Street The Largest Horticultural Auction Rooms in the World NEW YORK CITY

REMEMBER!

If it's a Hardy Perennial or so called Old Fashion Flower worth growing, we have it in one shape and another the year round. We have the largest stock in this country, all made in America, and our prices

will average 75c. per doz., \$5.50 per 100.

Why say more here? Send for our Wholesale Price List of varieties and benefit from the opportunities this affords you. Address

PALISADES NURSERIES, Inc.

E. W. CLUCAS, Manager.

SPARKILL - - N. Y.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants
MARKET and 49th STREETS, PHILADELPHIA, PA.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY.
Small, medium and large sizes supplied.
Price list now ready.

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers in America.

BOX 415, DUNDEE, ILL.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, - N. Y.

THE PRACTICAL BOOK

OF

Outdoor Rose Growing

by

GEORGE C. THOMAS, JR.

Elaborately Illustrated with 96 Perfect Reproductions in Full Color of All Varieties of Roses, and a Few Half-tone Plates. Octavo, Handsome Cloth Binding, in a Slip Case. \$4.00 net. Postage Extra.

We have sold many copies of this sterling book. It is one of the best of recent horticultural publications. Every rose grower should possess a copy.

Order From

Horticulture Publishing Co.

BOSTON

TREES

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties. Sturdy, choice stock that can be depended upon. Send for catalog and special trade prices.

The Bay State Nurseries

North Abington
Mass.

SHRUBS

This New England soil and climate produces fine, sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate.

ROSES

NEW YORK STATE TWO YEAR FIELDGROWN, FALL DELIVERY

POLYANTHAS: Rose Orleans, Cutbush, Jessie; Climbing: Excelsa, Tausendschoen, Perkins, White Dorothy, Crimson Rambler, Gardenia, American Pillar; H. P. Magna Charta, Laing, etc.; H. T. Testout, Teplitz, Killarney, Beauty, Kaiserin. Address

AUGUST RÖLKER & SONS, 51 Barclay Street
or P. O. Box 752 NEW YORK

OLDEST AUCTION HOUSE

IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co

42 Vesey St., New York

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

HATBORO, PA.

BOBBINK & ATKINS

Nurserymen, Florists
and Planters

RUTHERFORD, NEW JERSEY

ANGLIN & WALSH CO.

Williamsbridge, N. Y.

Send for Monthly Plant Bulletin

PEONIES

Large stock—Low prices
Our Festiva maxima and 'Duchess de Nemours'

Easily won 1st and 2nd Prize at the New York Show June 9th of the American Peony Society

S. G. HARRIS

TARRYTOWN, N. Y.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jano St. Woburn Heights
P. O. No 1, Woburn N. J.

In Stock ROSE STAKES

EXTRA STIFF No. 9 GALV. WIRE
4 feet—\$11.90 per 1000.

CARNATION SUPPORTS

\$18.00 per 1000 plants.

THE CARNATION SUPPORT CO., Connersville, Ind.

A. N. Pierson, Inc.

CROMWELL, CONN.

Bedding Plants and Roses

Obituary

John W. Poehlmann.

John W. Poehlmann, president of Poehlmann Bros. Co., passed away Friday, July 14th, at his home, 4728 Beacon street, Chicago. Mr. Poehlmann was born forty-nine years ago at Milwaukee, Wis., but spent most of his life in Chicago. His father was John George Poehlmann, who was a native of Germany and came to America in 1857. John W. Poehlmann and Fredrica Ottenbacher were married in 1893 and Mrs. Poehlmann died in 1898, leaving a son and daughter. Six years later Mr. Poehlmann was married to Emma E. Parker, who survives him.

In 1890, when the firm of Poehlmann Bros. Co. was organized, John Poehlmann was made president, Adolph Poehlmann vice-president and August Poehlmann secretary and treasurer, and for twenty-six years the brothers have stood shoulder to shoulder, intimately associated in the trying experiences of building up a great business enterprise which has been one of the chief factors in revolutionizing the cut flower trade and has made Chicago a great trade center in the growing and shipping of cut flowers and plants.

In his capacity as head of the wholesale store, John Poehlmann has probably been in closer touch with the flower market than any other one man, and his devotion to business, his readiness to help others in the trade and his exemplary habits all won him the highest regard of his associates. Naturally retiring in disposition he preferred the quiet of his home and the companionship of his family when not at the store and was seldom seen at conventions and other gatherings of florists, but there is no man in the Chicago market whose advice was more often sought, or who will be more genuinely missed. Mr. Poehlmann leaves a widow, a son, John, 21 years old, and daughter, Frieda, 20 years old, four brothers, Adolph, August, George and Gustave and two sisters Mrs. Bertha Hoppe of Milwaukee and Mrs. Lena Riemer of Morton Grove.

The funeral was held from the home Sunday at 2.30 and was largely attended. The service was conducted by Rev. Rudolph John of the Lutheran church, and was in both English and German. "Lead, Kindly Light" was touchingly rendered. The pall bearers were all from the trade, the active ones being Charles L. Washburn, Ed. Enders, J. C. Vaughan, August Lange, Edw. Winterson and Andrew J. Cronis.

The honorary ones were: E. Wienhoeber, A. L. Randall, J. D. Pickett, E. C. Amling, John Muir, Louis Wittbold, A. H. Budlong, C. A. Samuelson, L. R. Bohannon, M. Barker, E. Olinger, J. Mangel, W. J. Smyth, A. Ringier, P. Breitmeyer, H. E. Howard, George Asmus, M. J. Wietor, O. Friedman, P. Reinberg.

John G. Fleming.

John G. Fleming, a well known resident of Thompsonville, Conn., for many years, died Saturday morning, July 15, shortly after midnight at Mercy Hospital in Springfield, Mass. Mr. Fleming was 56 years old. He was a native of Brooklyn. At the age of nine years he went to work for the late Robert McCrone at his greenhouses in Thompsonville, and for more than 30 years remained in his employ as foreman of indoor work, and for several years, until about a year and a half ago, had been em-



JOHN W. POEHLMANN.

ployed by the Brainard Nursery and Seed Company. He had been in failing health several months, but had been at the hospital only a few days. Besides his wife, Mrs. Mary Fleming, he leaves three daughters, Misses Nellie, May and Ethel Fleming, all of Thompsonville, a brother, James Fleming, and a sister, Mrs. Thomas F. Sullivan.

Harry Hammock.

The death is reported of Harry Hammock, who has been with the Freeman boys in Washington, D. C., for something more than ten years. Death is said to have been caused by heart trouble. He had been complaining for some time prior to the attack which caused his death, but kept on with his work as long as he could. He was

seriously ill for only nine days when death ended his suffering. Mr. Hammock was thirty-nine years of age and is survived by his mother, two sisters and a brother. He was very well liked among the trade and all are sorry to hear of his death.

Albert Fregosi.

Albert Fregosi, partner in the firm of Parodi & Fregosi, florists at 1215 McAllister street, San Francisco, Cal., was instantly killed July 4th, when the automobile in which he was riding skidded. He was 37 years of age, and is survived by his wife, who was also seriously hurt in the same accident.

L. A. King.

L. A. King, florist, of Charlottesville, Va., died suddenly June 27th, while watching the local military company's departure for Camp Stuart, Richmond, Va. He was 58 years of age, and is survived by his wife and two daughters.

Edward M. Bogie.

Edward M. Bogie, a flower grower and retailer, of Jersey City, N. J., died at his home July 5th, aged 43 years. He is survived by two brothers and one sister.

VEGETABLE GROWERS' CONVENTION CHICAGO COMMITTEES.

At a meeting held at the Planters' Hotel on Thursday, July 13th, a permanent organization known as the Chicago Convention Committee of the Vegetable Growers' Association of America was formed for the purpose of arranging a program and entertainment of the Vegetable Growers' Association of America during the Convention to be held in Chicago in September (exact date to be announced later).

The officers and committees are as follows:

Fred Lautenschlager, President; James B. Foley, Secretary; E. F. Kurowski, Treasurer.

Finance—Geo. Sykes, Chairman; Leonard Vaughan, W. L. Kroeschell, D. J. Coyne.

Entertainment—D. J. Coyne, Chairman; Philip J. Foley, Leonard Vaughan, E. F. Kurowski, R. E. Dilger, Aug. Geweke.

Trade Exhibits—A. Dietsch, Chairman; Rudolph Kurowski, Geo. Sykes, Jr., J. E. Pollworth, Leonard Vaughan, John Leonard.

Hotel, Trade Space and Meeting Room—W. L. Kroeschell, Chairman; Geo. Sykes, Leonard Vaughan, Carl Ickes.

Programme—Sam. W. Severance, Louisville, Ky., Chairman.

Reception—J. E. Pollworth, Chairman.

Banquet—Leonard Vaughan, Chairman; W. L. Kroeschell, Geo. Sykes, Philip J. Foley, D. J. Coyne, P. L. McKee.

Further appointments will be announced at forthcoming meetings.

It is the earnest desire and intention of the committee to make the forthcoming Convention a perfect success, and with proper co-operation of all parties interested, success is assured.

The Chicago Convention promises to embody unique features, and it will be the aim of the Committee to bear out the reputation of Chicago, as the Convention City of the United States. Incidentally, the Chicago Association of Commerce is taking a lively interest in this enterprise, and will work with us. JAS. B. FOLEY, Sec'y.

Stoneham, Mass.—Christine C. Drewett has purchased the John L. White greenhouses on Wright street.

"Seeds with a Lineage" All Varieties

Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

SEED TRADE

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending July 7th, were recorded as follows:

Bulbs—Netherlands, \$24; Bermuda, \$111

Plants—Belgium, \$2,079; England, \$210; Bermuda, \$227; Brazil, \$64; Colombia, \$1,456.

Red clover seed—Canada, \$4,574.

Clover seed—New Zealand, \$5,759.

Grass seed—Scotland, \$2,872.

Other seeds—France, \$103; England, \$3,187.

Nitrate of soda—Chile, \$175,724.

Other fertilizers—Scotland, \$528.

Creditors have started bankruptcy proceedings against the O. H. Dickinson Seed Company of Springfield. They allege that the company committed an act of bankruptcy on June 26 by making a general assignment to John Aldrick of Springfield. The creditors who brought the proceedings are the American Agricultural Chemical Company, Bowker Insecticide Company, both of Boston, and the B. G. Pratt Company of New York. Their claims amount of \$512.

Thorburn's BULBS AND SEEDS For FLORISTS

Write for Quotations

J. M. THORBURN & CO.,
53 Barclay St., New York

POINSETTIAS

July and August Shipment

True type, fine 2½ inch plants, shipped in paper pots, \$6.00 per 100, \$50.00 per 1000.

A. HENDERSON & CO.

211 N. State St. CHICAGO, ILL.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

MICHELL'S

...SEED
HOUSE

518 Market Street, PHILADELPHIA, PA.

TREES!!

We are prepared to do all kinds of forestry work, including the filling and sealing over of cavities, taking down and removing trees, trimming and thinning out large and small growth in woods and timber lands. We give careful attention to the shaping of young fruit trees, budding and dip-grafting. We combat all kinds of leaf-eating and sap-sucking insects by improved methods.

Safeguard your fruit trees and their foliage by spraying.

R. & J. FARQUHAR & CO.

BOSTON, MASS.



SEEDS for the FLORIST

ASTERS QUEEN of the MARKET.

The best extra early variety, large, double flowers, on long stems, in colors: Crimson, Dark Blue, Light Blue, Rose Peach Blossom, White.

Trade Packet, 20c., Oz., 75c.

Sweet Peas, Cyclamen, Primulas, Lily of the Valley, from Our Own Cold Storage Plant.

Our Trade List Mailed on Application.

FOTTLER, FISKE, RAWSON CO., THE SEED STORE BOSTON
Faneuil Hall Square

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

MIGNONETTE

IMPROVED ECLIPSE.

Superior to all others for winter blooming, exhibition, or cutting. Immense fragrant spikes 10 to 15 inches long. Greenhouse grown seed from a re-selected strain. Pkt. 25c., 1/16 oz., \$1.00. Catalogue upon application.

THOMAS J. GREY CO., Seedsmen
29 So. Market St., Boston, Mass.

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

W. E. MARSHALL & CO.

SEEDS, PLANTS AND BULBS

Horticultural Sundries

166 W. 23rd St., NEW YORK

My new Price List of

WINTER-ORCHID-FLOWERING SWEET PEA SEED

Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragon on the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.

PHILADELPHIA, PA.

LILIUM GIGANTEUM COLD STORAGE

Extra Selected Stock. Gladiolus for forcing. Nanna, Colville or large flowering type. Greenhouse Fertilizers. Ask for 1916 Seed Catalogue.

Joseph Breck & Sons Corp., Seedsmen
47-54 No. Market St., BOSTON, MASS.

J. H. SMALL & SONS

FLORISTS NEW YORK and WASHINGTON

Announce the removal of their New York store to

505 MADISON AVENUE, AT 52d STREET

WASHINGTON, D. C.
15th and H Streets

Floral and Landscape Work

NEW YORK—Waldorf-Astoria
and 505 Madison Ave.

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

A. L. Vaughan says the first ten days of June raised the total sales above those of June, 1915.

Miss Charlotte Paradise, bookkeeper for A. L. Vaughan Co., is spending three weeks in the mountains of Colorado.

Allie Zech, of Zech & Mann, is using his two weeks' freedom from store life by motoring about the country, inhaling a fresh supply of oxygen.

Double gypsophilia is now being received from the west by A. L. Vaughan Co. This is very similar to statice in that it keeps well without water.

The lovers of country life along the famous North Shore gave a very successful affair known as the Lake Forest Fair last week, in which flowerers played an important part.

J. Mangel, the Palmer House Florist, is making changes in his conservatory and some unique features will be completed soon. The center will be made into a rockery from the top of which water will stream down, making a delightfully cool place for customers to visit.

Cupid was unusually busy at J. A. Budlong's recently and the marriage of Roswell Schupp and Lydia Schaefer is announced. Roswell is the only son of Mr. and Mrs. Philip Schupp and grandson of Mr. Budlong. Fred Price, of J. A. Budlong's, and Miss Ella Scholz were married about the same time and congratulations are extended to both couples.

A. F. Weiger is building greenhouses at 4121 N. Menard avenue, near Irving Park Boul., where he will grow plants and cut flowers. He will be known as Portage Park Florist. It is of interest to know that this part of the city received its name Portage because it was out of the water a larger portion of the year than other parts of Chicago and the Indians carried their canoes across here.

The sad news of the death of John W. Poehlmann was not unexpected, as his friends knew for many months of his illness. Naturally averse to talking of himself, he said little of his indisposition, till a climax was reached in January when an operation was performed and it became certain that

cancer of the stomach would shortly bring his life to a close. He will be missed, but he has so impressed himself upon this market by an active life the further details of which are to be found on another page, that his influence will remain.

Work on the grounds of Frank Oechslein's new home are under way now, having been delayed by the difficulty of obtaining material. A special feature will be a large rockery at the rear of the grounds which will be so arranged in connection with the high wall forming the back of the pot shed that together they will make a massive background of artistic beauty. H. J. Stockman, whose skill in this line is well known, has charge of the work. The house and grounds are both large and the two carloads of stone which have just arrived will afford an excellent opportunity to carry out his ideas in rockery effects.

Wabash avenue and Randolph street was for many years known as the Wholesale Florists' Corner when three out of four of the corner buildings were occupied by florists. Last week a ninety-nine year lease of the northeast corner was consummated and a new building will shortly be erected. In the present building is the Percy Jones commission house, and until a few years ago it was the home of the once flourishing Flower Growers' Market. The west side of Wabash from Randolph to Lake is now almost exclusively given over to the trade and this new deal will leave the Atlas Block the only one of the buildings on the Randolph, Wabash corner housing florists. Evidently "Florists' Corner" will soon be no more.

The placing of the large floral designs on the lawn, at the funeral of the late John Poehlmann, of Chicago, instead of over-crowding the house, was very beautiful in effect. The sloping lawn has upon it several fine, large trees, under which potted palms were scattered. Among these, the designs and large bouquets were arranged. In the house the family offerings were arranged, from ceiling to floor, in the room where the body lay, covered with a blanket of his favorite flowers, lily of the valley, and orchids. A floral book, so difficult

make is especially worthy of note. It was of white carnations, with the lines done in light pink miniature roses and a marker of inch-wide lavender ribbon separating the pages. It was from the firm and bore the two dates, 1890

PHILADELPHIA.

George Augle, of the Philadelphia Cut Flower Co., was being interviewed. "Business," he said, "is pretty good for this time of year, for although most of the flower buyers are out of town we have with us the deaths and they keep us alive." Sad but true. What is it the Scriptures say? "In the midst of life we are in death." The florist amends this to say, "In the midst of death we are in life."

Lilium regale made its appearance on the cut flower market here this week. It is certainly a beautiful and remarkable flower, and one of the best things E. H. Wilson has found for us in Northern China. The flowers are white inside, and brownish pink and white outside, very fragrant, and it is said the plant is perfectly hardy as far north as Canada. Everybody ought to have a clump of this in their garden. Also forces well for winter flowering.

In the gladiolus cut flower market at present there are in addition to the magnificent America and Augusta two very fine varieties of the Lemoinei; namely, Pink Beauty and Tecomic. The latter is of giant size, nearly twice as big as Pink Beauty, and much lighter in color, being a delicate flesh pink. Both have the characteristic darker blotch, which gives such charm and distinction to the Lemoinei group. The Philadelphia Cut Flower Co. are especially strong on these two fine sorts in our local market.

How to fool the rose bug. Here's a tip from Samuel S. Pennock, president of the American Rose Society. Plant alongside your rose garden Magnolia macrophylla. It blooms with the roses and the rose bugs make a—I was going to say a bee line, but I guess a scramble is better—for the flowers. So the roses escape. You will have no rose bugs on your roses. Sounds rather remarkable but it has been thoroughly investigated and there seems to be no doubt that it

BASKETS BASKETS BASKETS

BUY YOUR FALL SUPPLIES NOW

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Don't Miss This Chance

Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

1129 Arch Street, PHILADELPHIA, PA.

is a fact. Charles H. Breck of Boston will please take notice. That wonderful whale oil soap and hellebore recipe of his which he was so proud of thirty years ago is in grave danger.

PITTSBURGH.

Francis P. Smith will leave on August 1 for a visit with his family in Philadelphia.

Charles G. Ulmer left this week for Conneaut Lake, Pa., where he will spend his vacation.

Mr. and Mrs. W. A. Clarke and Mrs. E. A. Williams have returned from the Knights Templar conclave in Los Angeles.

G. Wessenauer, proprietor of The Flower Shop, Sewickley, has been appointed borough forester, succeeding J. G. Curtis.

Miss Eleanor Craig is seriously ill in the Homeopathic Hospital. Miss Craig is the bookkeeper for Miss Emma B. Moxwell, of Wilkinsburg.

The beautiful avenue of Ginkgo trees fronting the Phipps Conservatory in Schenley Park for about five hundred yards now forms a charming appearance and afford delightful shade. Mr. Jones has exceptionally fine carpet beds in the park this season, but labor is hard to get.

Under the supervision of Superintendent George W. Burke an attractive little park has just been laid out at the confluence of the Allegheny and Monongahela rivers, commonly known as The Point. Foreman John W. Jones, of Schenley Park, has laid out flower beds and it is further planned to have a road around the bend.

HORTICULTURE goes to press too early to give full details of the outing given last Wednesday by the Sewickley florists and Sewickley Heights private gardeners for the members of the Pittsburgh Florists' Club and the Horticultural Society of Western Penn. The committees were G. Wessenauer, chairman, Thomas Sturgis, J. Burnet, J. Carmon; William Thomson, A. E. Bonseg, Manus Curren; Richard Boxel, James Stewart, Joseph Wolfe.

BOSTON.

Bostonians who attended the sweet pea show at Bar Harbor are all home again, delighted with the trip and the hospitality enjoyed at Bar Harbor.

The annual picnic of the Gardeners' and Florists' Club will be held on Thursday, July 27. A full program of sports is being prepared and a big attendance is assured, as usual, if the weather is all right.

George Asmus and Mrs. Asmus, with a party of friends, landed unannounced in Boston on Monday, the 17th, having motored all the way from Chicago. Mr. Asmus busied himself distributing codfish among his friends, he having had a run of luck in a fishing trip out of Portsmouth, N. H., that morning. Encountered no sharks.

The Japanese iris was the feature of a special exhibit at Horticultural Hall last Saturday, where a silver medal was awarded the display from the estate of Dr. and Mrs. Homer Gage of Shrewsbury, gard., Allen J. Jenkins.

There was a notable display of Lilium regale associated with perennial larkspurs, by R. and J. Farquhar & Co. Dr. H. Kennedy of Milton also showed Japan iris and the Eastern Nurseries were represented by a fine show of herbaceous perennial flowers. There were several tables of small fruits.

WASHINGTON, D. C.

C. L. Jenkins & Son, of Suitland, D. C., are putting concrete benches in two of their large houses.

Otto Bauer, manager for S. S. Pen-nock-Meehan Co., is taking a vacation at Wildwood, N. J., where his wife and children are spending July.

J. Harper Hetherington, of Washington Floral Co., has gone with his wife to Philadelphia for his annual vacation. They will also visit Atlantic City.

M. J. McCabe is tearing down 10,000 feet of glass on his range in Anacostia, D. C., and is rebuilding. The four old houses were 18 feet wide; the two that replace them will be 30 feet wide and 160 feet long. One of the houses

will be devoted to roses, the other to miscellaneous stock.

Mrs. M. J. McCabe, who conducts a flower stand in the Center Market, has returned from Miami, Fla., where she visited Mrs. Marie Fry, who before her marriage assisted Mrs. McCabe in her work.

The famed commercial orchid collection of George Field has been sold to W. J. and M. S. Vesey of Fort Wayne, Ind., for \$15,000. Mr. Vesey will erect four new houses specially to accommodate the plants.

A number of Washingtonians marched in the parade of the Elks in Baltimore last week. William F. Gude, exalted ruler for D. C., was their leader. Edward S. Schmid marched with his little grandson. George C. Shaffer and Jake Richards were also in line.

NEW YORK.

Secretary John Young has gone to Texas to attend to convention preliminaries.

The engagement of Nat Bernstein, with Gunther Bros., New York, and Miss Ada Greenberg, is announced.

The J. M. Keller Co. have bought the Bergen estate, twelve acres, adjoining their property, in Whitestone, on which they will erect some more greenhouses during this summer, as their present greenhouse plant has proved insufficient to satisfy the increased demand for their stock.

At a joint meeting of the Retail Florists' Association and Greek-American Florists' Association last week a special committee was appointed to confer with other flower and plant organizations in the city with a view to better co-operation. A banquet at the Hotel Breslin followed the meeting.

CATALOGUE RECEIVED.

H. F. Michell Company, Philadelphia, Wholesale Catalogue of Bulbs, Seeds, Plants and Greenhouse Supplies for July and August, 1916, Giant Exhibition Pansies in colors make a brilliant cover page subject.

Burpee's S

NE

WINTER FLO

After seven years of patient w trials at Floradale Farm, it is our New Early or Winter Flower satisfaction.

THE HOUSE OF BURPEE has lo Sweet Peas," and our introduction commercial Sweet Pea Growing.

The Novelties offered below, with made at our Fordhook Farms dur Floradale Farm, "The California

YARRAWA

After another year's trial, this truly mag cent Australian variety has fully borne ou we have hitherto said regarding it. merical growers in all parts of the country not speak too highly of its merits, proclaim it a "sure money maker."

We first exhibited this novelty at the International Flower Show in New March, 1914, where we were awarded a ce cate of Merit by the American Sweet Pea ciety. The Pennsylvania Horticultural ciety also awarded us Certificate in Phil phia, March, 1915. It is a direct sport fr summer-flowering Spencer, retaining the h foliage and strong growth. When grown u glass it attains a height of ten to twelve flowering continuously for several months From seed sown in early October at Ford Farms the plants came into bloom Decembe and bloomed profusely until May. The flo are exquisitely waved and when well g average two and one-half inches in diam many of them being duplex or double. T are produced usually in fours on extra l strong stems. The color is a bright rose with a clear Creamy base, the wings p slightly lighter in tone. $\frac{1}{4}$ oz., 35c.; $\frac{1}{2}$ 60c.; oz., \$1.00; $\frac{1}{4}$ lb., \$2.75; $\frac{1}{2}$ lb., \$1 lb., \$10.00.

F. M. Hansen, Florist, Peoria, Illinois, July 5, 1916, writes: An the Winter-blooming Spencer Sweet Peas which we had under cul for cutting last winter "the best of the best" were your Yarra Never have seen anything so perfect and exquisite in every respec of course, we are wanting your seed again, only much more of it

Write for Our Special Leaflet on

W. ATLEE B

Seed G

Burpee Buildings



Yarrawa

From a
Fordhook Photograph



A Single Flower of Yarrawa

et Peas

ARLY

ING SPENCERS

ook Farms supplemented by careful
offer to Commercial Growers, Burpee's
which we feel sure will give entire

nized as "American Headquarters for
ter Flowering Spencers marks an era in

n of "Yarrowa" are the results of crosses
even seasons, and all stocks are grown at
et Peas."

FORDHOOK PINK & WHITE.—The most
lar color of all Winter Flowering Spen-
Is always in demand, similar to the old
he Ferry. Bright rosy pink standard,
s pure white. The large flowers meas-
½ inches in diameter and are perfect
orm. A very early, free and continuous
mer. Awarded a Certificate of Merit at
International Show in New York, March
, the Spring Show of the Pennsylvania Horticultural Society, Phila-
phia, March 1915 and the American Sweet Pea Society, San Fran-
co, June 1916. ¼ oz., \$1.25; ½ oz., \$2.00; oz., \$3.50.

FORDHOOK PINK.—This is a distinct shade of pink suffused with
nder throughout, lavender pink self. Flowers are large size, ex-
tely waved, produced in threes and fours on long stems. ¼ oz., 40c.;
, 75c.; oz., \$1.25; ¼ lb., \$3.50; ½ lb., \$6.25 or \$12.50 a lb.

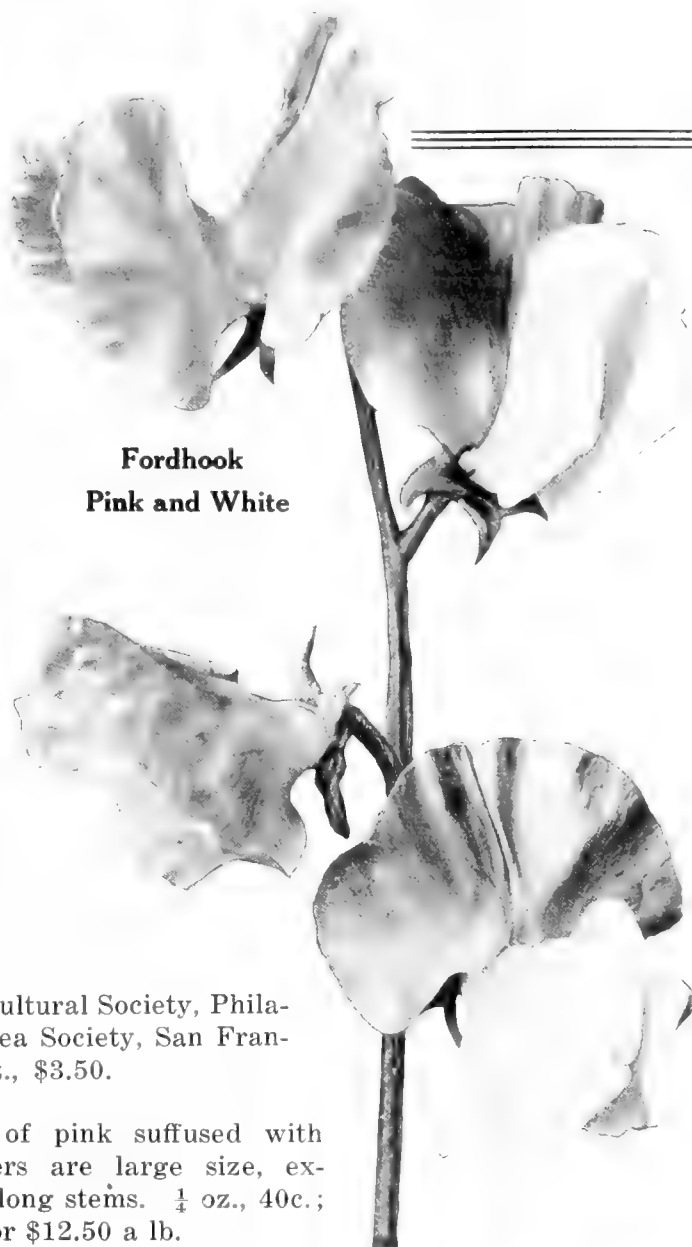
FORDHOOK ROSE.—Introduced by us in 1915. Flowers of largest size
ally borne in threes and fours. A charming shade of rosy
nine. Awarded a Certificate of Merit at the International
w, New York, March 1915, and the Spring Show of the
nsylvania Horticultural Society, Philadelphia, March 1915.
z., 50c.; ½ oz., 85c., oz., \$1.50; ¼ lb., \$4.00; ½ lb., \$7.50; lb.,
6.00.

Flowering Spencers—Free on Request

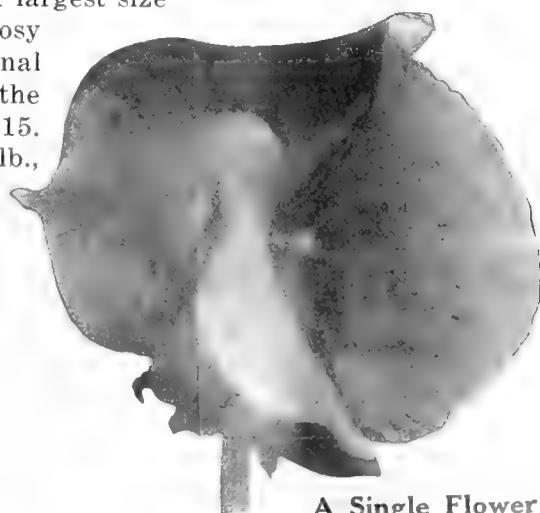
BURPEE & CO.

ers

Philadelphia, Pa.



**Fordhook
Pink and White**



**A Single Flower
Fordhook Rose**

ALEX. McCONNELL611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Cost of Cabling Foreign Deliveries Must be prepaid

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

For KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for New York. Write or Phone to

MAX SCHLING

22 West 59th Street, - Adjoining Plaza Hotel

Best Florists in the States as References.

EUROPEAN ORDERS EXECUTED.
Members of the Florists' Telegraph Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO**DAVID CLARKE'S SONS**

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York
Telephone 1589-1583 Columbus

YOUNG & NUGENT42 West 28 Street
New York

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

WORCESTER, MASS.

Randall's Flower Shop

HARRY L. RANDALL, Proprietor.

Member Florists' Telegraph Delivery Association

Of Interest to Retail Florists

NEW FLOWER STORES.

Lents, Ore.—August Weber.

Youngstown, O.—Walter E. Holtzman Co.

Oakland, Cal.—Miss May Black, 577 41st street.

Chicago, Ill.—Louis Seilsky, 6047 S. Halsted street.

Bay City, Mich.—R. H. Leidy, 617 Washington avenue.

Los Angeles, Cal.—Miss Rohr, removing to 1907 Washington street.

Kankakee, Ill.—Schafer Floral Co., removing to Remington building.

Gloversville, N. Y.—Paul Trunka, Third avenue, succeeding E. T. Denham.

San Francisco, Cal.—San Francisco Floral Co., 431 Bush street (wholesale).

Portland, Me.—Donald R. Fogg, has purchased the flower store of E. J. Harmon & Co., at 657 Congress street, Portland, and will conduct it. Although a young man, Mr. Fogg has had a good experience in the florist business including a term at the Stumpp store in New York. The store has been very successfully conducted by the late Mr. Harmon and its new owner will have the advantage of its well established and desirable line of customers to begin with.

WHY

Jinn The Florist?
4 Park St., Boston, Mass.

**Because Satisfaction
Is Guaranteed**

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor.

FLOWERS BY TELEGRAPH

SAN FRANCISCO

CALIFORNIA

Pelicano, Rossi & Co.

123 KEARNY ST.

HIGH GRADE PLANTS

[For Retail Stores a Specialty]

ASK FOR LIST]

THOMAS ROLAND, Nahant, Mass.

JOHN BREITMEYER'S SONSCor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery Association.



GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

**IN THE
National Capital**

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 306. Long Dist. Bell Phone 2826
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEWPORT, R. I.

145 Bellevue Avenue.

WE GUARANTEE SATISFACTION
MEMBER F. T. D. A.

CHICAGOSend Your Orders to
WILLIAM J.**SMYTH**Member Florists' Telegraph
Delivery Association**Michigan Ave. at 31st Street**Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1836 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

SALTER BROS.
FLORISTS
"38 Main Street," West
ROCHESTER, - N. Y.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE125,000 Sq. Ft. of Glass
WORCESTER, MASS.**Flowers by Telegraph**

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State St.

Albany, N. Y.—The Rosery, 23 Steuben St.

Albany, N. Y.—William C. Gloeckner, 97 State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont St.

Boston—Zinn the Florist, 4 Park St.

Buffalo, N. Y.—S. A. Anderson, 440 Main St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid Ave.

Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th St.

Cleveland, O.—The Smith & Feters Co., 735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643 Broadway.

Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.

New London, Conn.—Reuter's.

Newport, R. I.—A. T. Bunyard, 145 Belle-vue Ave.

New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.

New York—David Clarke's Sons, 2139-2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. corner 44th St. and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth Ave.

New York—Thos. F. Galvin, Fifth Ave., at 46th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.

Rochester, N. Y.—Salter Bros., 38 Main St., West.

San Francisco—Pellicano, Rossi & Co., 123 Kearny St.

St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pearson Co.

Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.

Washington, D. C.—Gude Bros., 1214 F St.

Washington, D. C.—F. H. Kramer, 915 F St., N. W.

Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

*Penn The Florist***"The Telegraph Florist"**

Member of Florists' Telegraph Delivery

124 Tremont St., BOSTON**REUTER'S** Members Florists' Telegraph Delivery**STORES IN****New London and Norwich, Conn. and Westerly, R. I.**

We cover the territory between

New Haven and Providence**ST. LOUIS, MO.****FRED C. WEBER**
4326-28 Olive St.

Member Florists' Telegraph Delivery Association

NOTICE INITIALS. We have one store only**THE J. M. GASSER COMPANY,****CLEVELAND****Euclid Avenue****The Far-Famed Flowers of TORONTO**

Delivered on mail or telegraph order for any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.**ALBANY, N. Y.****EYRES**
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

Now Is The Time To Put
In Next Season's Supply of
SPHAGNUM MOSS

Six 5 Bbl. Bales for \$10.00

This is the biggest value in Moss you can buy. Our Moss is clean and fresh and each bale is wrapped.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S
Wholesale & Commission Florists
FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

EDWARD REID
WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER
122 West 25th St., New York
Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E.G. HILL CO.

Wholesale Florists

RIEHOOND, IND.

Please mention Horticulture when writing.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 3860 Madison Square

WOODROW & MARKETOS

WHOLESALE

Plantsmen and Florists

37 and 39 West 28th St., NEW YORK

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut
Flower Market

Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

226 DEVONSHIRE ST.,
Telephone, Main 6267-6268

BOSTON, MASS.

**WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100
TO DEALERS ONLY**

	BOSTON July 20		ST. LOUIS July 17		PHILA. July 17	
Roses						
Am. Beauty, Special	20.00	to 25.00	15.00	to 25.00	15.00	to 25.00
" " Fancy and Extra	10.00	to 15.00	8.00	to 10.00	12.50	to 15.00
" " No. 1	1.00	to 6.00	1.00	to 5.00	5.00	to 8.00
Russell, Hadley	2.00	to 12.00	5.00	to 10.00	3.00	to 10.00
Killarney, Richmond, Hillingdon, Ward, Extra	2.00	to 4.00	5.00	to 8.00	2.00	to 6.00
" " Ordinary	.50	to 2.00	3.00	to 4.00	1.00	to 2.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 6.00			4.00	to 6.00
" " Ordinary	.50	to 2.00			1.00	to 3.00
Ophelia, Mock, Sunburst, Extra	3.00	to 5.00	5.00	to 8.00	3.00	to 6.00
" " Ordinary	1.00	to 2.00	2.00	to 3.00	2.00	to 3.00
Carnations, Fancy	.75	to 1.00	2.00	to 3.00		to 2.00
Ordinary	.35	to .50	.75	to 1.00		to 1.00
Cattleyas	20.00	to 25.00	30.00	to 40.00	15.00	to 30.00
Dendrobium formosum		to 25.00				to 25.00
Lilies	4.00	to 6.00	10.00	to 12.50	8.00	to 10.00
Lily of the Valley	2.00	to 3.00	4.00	to 5.00		to 6.00
Snaptadragon	2.00	to 3.00	3.00	to 4.00	2.00	to 4.00
Gladioli	2.00	to 6.00	3.00	to 4.00	2.00	to 4.00
Asters	1.00	to 2.00			1.00	to 2.00
Sweet Peas	.15	to .75	.15	to .25	.20	to .50
Gardenias	20.00	to 25.00				to 25.00
Adiantum		to 1.00	1.00	to 1.25	.75	to 1.00
Smilax	10.00	to 12.00	12.00	to 15.00	20.00	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	20.00	to 25.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co.
Wholesale Florists

493 WASHINGTON STREET - - BUFFALO, N. Y.

J.A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

BOSTON

BUFFALO

CHICAGO

CINCINNATI

NEW YORK

PHILADELPHIA

A black and white photograph of three large, daisy-like flowers. The flowers have numerous light-colored, pointed petals radiating from a dark, textured center. They are set against a dark, almost black background. The lighting is dramatic, highlighting the texture of the petals and the intricate details of the flower heads. The composition is a close-up, focusing on the individual flower heads.

1216 H St., N. W.

There has been a decrease in the market's offerings. Northern consignments being received here in bad condition. Some few asters and dahlias are already offered. There is but little demand for high-grade flowers. Cattleyas in this market are slowing up. Carnations and sweet peas show the effects of the heat. Outdoor sweet peas are about over with. There is a slow movement of lilies for funeral work.

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 145 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street
Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK
Telephone 8335, Farragut.
Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE 608 MADISON SQ., NEW YORK
609

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7862 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.
Tel 1593 Mad Sq. 119 W. 28 St., New York
5893

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First-Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 2870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.

Wholesale Commission

READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE 2281 FARRAGUT 131 West 28th St., NEW YORK CITY
3089

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS
GARDENIAS, DAISIES, ROSES, CARNATIONS

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 769

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 7062 Madison

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones 1084
1085 Madison Square

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending July 15 1916		First Half of Week beginning July 17 1916	
Cattleyas	15.00	to 35.00	20.00	to 40.00
Dendrobium formosum	20.00	to 25.00	20.00	to 25.00
Lilies	2.00	to 4.00	2.00	to 4.00
Lily of the Valley	2.00	to 3.00	2.00	to 3.00
Snaptagon	.50	to 2.00	.50	to 2.00
Gladioli	1.00	to 2.00	1.00	to 2.00
Asters	.50	to 1.00	.50	to 1.00
Sweet Peas	.15	to .50	.15	to .50
Gardenias	12.00	to 25.00	20.00	to 25.00
Adiantum	.50	to 1.00	.50	to 1.00
Smilax	6.00	to 8.00	6.00	to 8.00
Asparagus Plumosus, & Spreng (100 bunches)	10.00	to 20.00	15.00	to 20.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers. We have 22 years' experience behind us, and we do not expect a gold medal for doing our full duty by our consignors and customers. You cannot go very far wrong when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK

Phones 2036, 2037, 558 Farragut

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797-798-799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality.

114 West 28th Street

NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13-8510 Madison Square

MAURICE L. GLASS, Treasurer

Consignments Solicited

Visitors' Register

Cincinnati—Mr. and Mrs. W. C. Lawrence and daughter, Atlanta, Ga.

Washington—Charles E. Meehan, Philadelphia, Pa.; Charles Niemann, repr. C. F. Meyer, New York, N. Y., and Morris M. Cohen, New York.

Pittsburgh—H. E. Bates, representing Lord & Burnham Co.; Milton Alexander, New York; Julius Dilhoff, New York; Mr. Sperro, of Charles Zinn & Co., New York.

Philadelphia—Dewitt House, Florence, S. C.; Charles Edgar, Atlantic City, N. J.; August Zirngiebel, Chester, Pa.; Alfred Cartledge, Jr., repr. J. Breitmeyer's Sons, Detroit, Mich.

Boston—Ed. Flood, Philadelphia, Pa.; Robert Kift, Phila.; H. A. Bunyard, New York; Chas. H. Totty and daughter, Madison, N. J.; J. Harrison Dick, New York; Henry Weston and Mrs. Weston, Hempstead, N. Y.; Thomas Murray, Tuxedo, N. Y.; George Asmus, Chicago.

Chicago: Mr. and Mrs. Griffen, Hannibal, Mo.; Chas. Siebrecht, Winona, Minn.; E. Bock, Burlington, Iowa; J. B. Goetz, Saginaw, Mich.; C. H. Green, Fremont, Neb.; Miss H. B. Whitted, Minneapolis, Minn.; Jas. L. Denmead, Marshalltown, Iowa; K. T. Drayton, Terre Haute, Ind.; J. B. Tucks, of the Flower Shop, Rock Island, Ill.

A PHENOMENAL SWEET PEA.

This little illustration shows a stem of Sweet Pea Fiery Cross bearing ten flowers, which we believe sets a new record. It was grown by Victor May



at The Reef Gardens, Newport, R. I., and won for him a certificate of culture at the meeting of the Newport Horticultural Society on July 11. The

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending July 15 1916		First Half of Week beginning July 17 1916	
American Beauty, Special	10.00	to 12.00	10.00	to 15.00
" " Fancy and Extra	6.00	to 8.00	6.00	to 8.00
" " No. 1	2.00	to 6.00	2.00	to 6.00
Russell, Hadley	2.00	to 8.00	2.00	to 8.00
Killarney, Richmond, Hillingdon, Ward, Extra	3.00	to 4.00	3.00	to 4.00
" " Ordinary .....	.50	to 2.00	.50	to 2.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 5.00	3.00	to 4.00
" " Ordinary .....	.50	to 2.00	.50	to 2.00
Ophelia, Mock, Sunburst, Extra	3.00	to 5.00	3.00	to 4.00
" " Ordinary	1.00	to 3.00	.50	to 3.00
Carnations, Fancy .....	.50	to 1.00	.50	to 1.00
" " Ordinary .....	.25	to .50	.25	to .50

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street
167 & 3058 Farragut NEW YORK

Established 1888 Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists
110 West 28th St., New York
We Solicit Consignments of New
England Grown Novelties.

J. J. COAN, INC.

115 WEST 25TH STREET
New York
Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST
Wholesale and Commission Florists
32 Otis Street, 2 Winthrop Square
BOSTON, MASS.
Telephone 2618-2617-2616, Main.

stem was 18 inches long and the flowers 2 inches across.

KASTING COMPANY BURNT OUT.

On Wednesday morning, July 19, the Wm. F. Kasting Co. building on Ellicott street, Buffalo, N. Y., was completely destroyed by fire. Mr. Brucker and his force showed business enterprise of the sort that wins, opening for business at 9 A. M., at temporary quarters at 493 Washington street.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. . . . BOSTON

Telephone Mala 58.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists

57 WEST 28th STREET. NEW YORK
Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission
Consignments of
Good Stock Solicited
PERCY W. LICHTER, Mgr., NEW YORK
111 W. 28th Street

HERMAN WEISS

Wholesale Florist

Experienced, Progressive and can handle
shipments of growers' product
satisfactorily.

106 West 28th St., NEW YORK
Tel. Farragut 3066.

STRAIGHT WHOLESALE ONLY

FRANK MILLANG

CUT FLOWERS

55-57 W. 26th St., NEW YORK
NO DESIGNS MADE UP

DURING RECESS.

Buffalo Florist Club.

The annual outing of the Buffalo Florist Club will be held at the Automobile Club House at Clarence on Wednesday, August 2. This will be a change from other years and should be a decided success. The committee will arrange autos to carry the party, as the distance is but sixteen miles. local and out-of-town florists are invited to be with us on this day as a good time is assured for all.

E. C. BROWN

The Albany (N. Y.) Florists' Club
have a clam-bake
19

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

W. H. Elliott, Brighton, Mass.
Asparagus Plumosus Nanus.

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

ASTERS

ASTER PLANTS, Crego and Semple's, mixed and separate colors. Strong, well-rooted plants, shipped prepaid, 60c. per 100; \$3.90 per 1000. HARRY E. SQUIRES, Remsenburg, N. Y.

AUCTION SALES

The MacNiff Horticultural Co., New York City.
For page see List of Advertisers.

Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price list.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Bedding plants: Geraniums, Nutt, Ricard, Poltevine, Vland, Buchner and Rose geraniums, 3½ and 4 in., \$6.00 and \$8.00 per 100. Cannas, Austria and Robusta (bronze), 3½ in., \$6.00 per 100. Heliotrope (dark), 3½ in., \$6.00 per 100. Salvia Bonfire, 3½ in., \$5.00 per 100. Dracaena indivisa, 5 in., \$20.00 per 100. Sallerol geraniums, Coleus Trailing Queen, double Sweet Alyssum, Begonia Vernon, white Marguerites, blue Ageratum, 3 in., \$4.00 per 100. Cash.
F. SOKOL, College St., Worcester, Mass.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS—Continued

BEGONIAS.

Mrs. J. A. Peterson (New), 2 in. pots \$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.

"King Ideal" Boiler.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Hitchings & Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

BOX TREES—Standards, Pyramids and Bush. Price list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
Lily Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Forcing Bulbs and Plants.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

The MacNiff Horticultural Co., Holland Grown Bulbs.
New York City.

For page see List of Advertisers.

Mr. B. Progressive, Florist,
Everywhere, U. S. A.

Dear Sir: It will be a decided advantage as regards prices and quality to place your order with us.

Soliciting your order through this ad cuts down the overhead selling expenses and you positively get lower prices and better quality. Our terms are liberal and are a guarantee that you get a square deal, all bulbs guaranteed true to name or money refunded.

Write us and upon request we will mail you our booklet giving prices f. o. b. New York or Chicago, and we also cheerfully furnish you with any information that may be desired. Those of our friends who will mail us a list of their requirements will find it has paid them to do so.

Awaiting to hear from you at your pleasure, we remain,
Yours very truly,
Westerbeek & Klyn,
Sassenheim, Holland.

Write to WESTERBEEK & KLYNN, 14 STONE ST., NEW YORK, N. Y.

BULBS AND TUBERS—Continued

Henry F. Mitchell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc., New York City.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

CANNAS

Rowan J. Irwin, New York City.
For page see List of Advertisers.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 postpaid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
Pompon Chrysanthemums.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Emma, a Garza Anemone, Double Pompon, pale pink.

DAHLIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

ORDERS BOOKED ANYTIME

For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wannamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

For List of Advertisers See Page 99

DECORATIVE PLANTS—Continued

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

EXCURSIONS

Hudson Navigation Co., New York City.
To the Heart of Lelsureland.
For page see List of Advertisers.

FERNS

A. M. Davenport, Watertown, Mass.
Ferns in Flats.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FLORISTS' PLANT STOCK

Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums S. A. Nutt, rooted cuttings,
\$8.00 per 1,000; 2 1/2 in., \$15.00 per 1,000.
First class stock. Cash. FRANK LEITH
& SON, Haverhill, Mass.

500 Buchner, 3 in., 6 cents; 500 S. A.
Nutt, 3 in., 6 cents. GEO. P. GRIDLEY,
Wolfboro Falls, N. H.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, cas-
tles, globes, aquarium, fish goods, nets,
etc., wholesale. FRANKLIN BARRETT,
Breeder, 4815 D St., Olney, Philadelphia,
Pa. Large breeding pairs for sale. Send
for price list.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset,
Boston.
Pecky Cypress.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

John C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Hitchings & Co., New York City.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit,
Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

Palisades Nurseries, Inc., Sparkill, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co.,
Chicago, Ill.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine.

For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

IRIS

R. & J. Farquhar & Co., Boston, Mass.
German Iris.

John Lewis Childs, Flowerfield, N. Y.
German Iris.
For page see List of Advertisers.

LILY BULBS

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hobmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.,
Hathoro, Pa.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.
Lager & Hurrell, Summit, N. J.

PANSY SEED

Chas. Frost, Kenilworth, N. J.
The Kenilworth Giant Pansy.
For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
Giant Prize Pansy Seed.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

French Peonies can be shipped with celerity and security via Bordeaux-New York. Catalogues free. DESSERT, Peony Specialist, Chenonceaux (I. & L.), France.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

POINSETTIAS.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

W. H. Elliott, Brighton, Mass.
Grafted and Own Root Rose Stock.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS. THE CONARD & JONES COMPANY, WEST GROVE, PA.

ROSE STAKES

The Carnation Support Co.,
Connersville, Ind.
For page see List of Advertisers.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Winter Flowering Spencer Sweet Pea Seed.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Loebner & Co., New York City.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Mignonette, Improved Eclipse.
For page see List of Advertisers.

Fottler, Flske, Rawson Co., Boston, Mass.
Seeds for the Florist.
For page see List of Advertisers.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

The Leo Niessen Co., Philadelphia, Pa.
For page see List of Advertisers.

STRAWBERRY PLANTS

STRAWBERRY PLANTS, pot-grown and runner for August and Fall planting. Standard and Everbearing varieties. Also Raspberry, Blackberry Plants, Fruit Trees. Catalogue free. HARRY E. SQUIRES, Remsenburg, N. Y.

SWEET PEA SEED

W. Atlee Burpee & Co., Philadelphia, Pa.
Winter-Flowering Spencer Sweet Peas.
For page see List of Advertisers.

Arthur T. Boddington Co., New York City.
Winter Flowering Spencer Sweet Peas.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet Peas.
For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Celery Plants, Golden Self-blanching (French Strain), fine plants, ready for the field, \$2.00 per 1,000; 5,000 for \$7.50. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

VEGETABLE PLANTS—By mail or express prepaid. Strong, well-rooted plants in large or small lots at reasonable prices. Will promptly replace any that do not arrive in 1st-class condition. Leading varieties, Cabbage, Tomato, Cauliflower, Celery, Sweet Potato, Asparagus, Rhubarb, Beet, Lettuce, Pepper, Egg Plants. Also Asters. Catalog free. HARRY E. SQUIRES, Remsenburg, N. Y.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VINCAS

Vinca Var., 4 in., heavy, \$12.50 per 100; good, \$10.00 per 100; extra heavy, \$15.00 per 100. WILLIAM CAPSTICK, Auburndale, Mass.

WEED KILLER

Pino-Lyptol Chemical Co., New York City
Pino-Lyptol Weed Killer.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIREWORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 2 Winthrop Sq.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

For List of Advertisers See Page 99

WHOLESALE FLORISTS

Buffalo, N. Y.

William F. Kasting Co., 493 Washington St.
For page see List of Advertisers.

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 264-266
Randolph St.
For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
For page see List of Advertisers.

Hentz & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Traendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

Woodrow & Marketos, 37 and 39 W. 28th St.
For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 53 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Guttman & Reynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunther Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St.
For page see List of Advertisers.

George W. Crawbuck Co., 57 West 28th St.
For page see List of Advertisers.

WHOLESALE FLORISTS

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 21 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.

New Offers In This Issue**ASTERS.**

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

BASKETS.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BURPEE'S SWEET PEAS.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

FLORISTS' FLOWER SEEDS FOR PRESENT SOWING.

Arthur T. Boddington Co., Inc., New York
City.
For page see List of Advertisers.

HYDRANGEAS FOR SALE.

H. R. Comley, Boston, Mass.
For page see List of Advertisers.

ORCHIDS.

Paul de Nave, Fall River, Mass.
For page see List of Advertisers.

PEONIES.

S. G. Harris, Tarrytown, N. Y.
For page see List of Advertisers.

TREES.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

THE NUT-GROWER

The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 147 Summer St., Boston.

HELP WANTED

WANTED—Expert tree pruners. State age, experience, nationality, wages, references. Reliable men, who really want work preferred. BOX 605, New Rochelle, N. Y.

FIRST CLASS ASSISTANT wanted for outside work. Good wages. Apply with copies of references to J. G. BROCK, Greens Farms, Conn.

FOR SALE**RETAIL SEED AND FLOWER STORE**

25 miles from Boston in city of 90,000 population. Old established concern doing a business of \$35,000 to \$40,000 a year, about one-half of which is seed trade. Address "T. R." care HORTICULTURE.

FOR SALE—One 6-inch Castle Circulator complete with motor, one 6-inch Blower for forced draught; 2½, 3 and 4-inch gate valves. Write if interested. CHAS. H. RICE, Bedford St., Lexington, Mass.

MISCELLANEOUS

WANTED TO LEASE, immediately, with privilege of purchase, about 12,000-15,000 feet of glass. Easy reach of Boston preferred. Particulars to EDE, Willow Street Greenhouses, West Roxbury, Mass.

TREES, SHRUBS, VINES and HERBACEOUS PERENNIALS

By JOHN KIRKEGAARD

Formerly Assistant to Director of the Royal Botanical Gardens, Copenhagen, Denmark. Latterly Twenty Years in American Forestry and Botanical Work.

Assisted by DR. H. T. FERNALD,

Professor of Entomology Massachusetts Agricultural College and Entomologist, Massachusetts Agricultural Experiment Station.

and PROF. E. A. WHITE,

Professor of Floriculture, New York State College of Agriculture at Cornell University.

A Great Book A Beautiful Book
A Comprehensive Book
A Practical Book By Practical Men
There Is No Other Book Like It

410 Pages. Planting Plans. Tabular Description and Classification of Species. 59 Full-Page Illustrations in Tone. Authoritative Articles on Many Subjects.

New Edition

BEAUTIFULLY BOUND IN CLOTH

Price only \$2.50 net. Mailing Price, \$2.71. Money-Back Guarantee

Order it from HORTICULTURE
147 Summer St., Boston

In writing to Advertisers kindly mention Horticulture

CLUBS AND SOCIETIES

AMERICAN DAHLIA SOCIETY.

The following special prizes are in conjunction with The American Institute of the City of New York for the Dahlia Exhibition to be held at the Engineering Building, 25 to 33 West 39th street, New York, on September 26th to 28th, 1916.

Class A.—Display of Dahlias, any or all classes, grasses or other foliage allowed, quality and arrangement to count. 1st, gold medal; 2d, silver medal. Michell's Seed House, Phila., Pa.

Class B.—General collection, any or all types, arranged for effect, space 50 sq. ft. 1st, American Dahlia Society's silver medal; 2d, the Society's bronze medal.

Class C.—Best display of six vases Giant Single Dahlias distinct varieties. Cut glass vase offered by Mrs. O. P. Chapman, Jr., Westerly, R. I.

Class D.—Dinner table decoration, any foliage, 1st and 2d prizes, silverware presented by Peter Henderson & Co., New York.

Class E.—Decoration of Dahlias, any design, any foliage, 1st and 2d prizes, silverware presented by Henry A. Dreer, Inc. Philadelphia.

Class F.—Basket of Dahlias for effect, any foliage, 1st and 2d prizes, silverware, presented by Fottler, Fiske, Rawson Co., Boston, Mass.

Class G.—Vase of Decorative Dahlias for effect, any foliage, Cut glass vase by Stumpp & Walter Co., New York.

Class H.—Best vase of new Paeony-flowered Dahlias, 12 flowers, not less than four varieties. Silver cup, by W. Atlee Burpee Co., Phila., Pa.

Class I.—Vase of mixed Dahlias, 1st and 2d prizes silverware, by Richard Vincent, Jr. & Sons Co., White Marsh, Md.

Class J.—Best vase of modern Cactus Dahlias, 12 flowers, not less than four varieties. Silver cup, by W. Atlee Burpee & Co., Phila., Pa.

Class K.—Most meritorious and unique exhibit staged by an amateur. Silver flower vase, by Geo. L. Stillman, Westerly, R. I.

Class L.—Best exhibit in the amateur classes. Garden Magazine Achievement Medal.

Class M.—Best vase of a new seedling Cactus Dahlia, shown by an amateur. Silver cup, by Mrs. Chas. H. Stout, Short Hills, N. J.

Class N.—Best vase of a new seedling Dahlia, to be named for donor of premium. Mrs. Gertrude Dahl-Mordecia, Charleston, S. C.

Class O.—Largest Dahlia flower in the show. \$5.00, by Geo. L. Stillman, Westerly, R. I.

Class P.—Smallest Dahlia flower in the show. \$5.00, by Geo. L. Stillman, Westerly, R. I.

Where only one prize is offered in any of the above classes, the Executive Committee may, at its discretion, award a second prize to any other exhibit which is deemed sufficiently meritorious.

The Society's Certificate of Merit is offered for any seedling Dahlia novelty which is deemed distinct and sufficiently meritorious, and may be awarded by the Adjudicating Committee.

PARK SUPERINTENDENTS' ANNUAL CONVENTION

The executive committee of the American Association of Park Superintendents has fixed the date for the holding of the eighteenth annual convention of that organization at New Orleans on Oct. 10, 11th and 12th.

A programme of lectures and papers is being prepared, to be presented by numerous men connected with the park and recreation movement. There will also be numerous social features, outdoor demonstrations and inspection trips, and inasmuch as this will be the first convention of the organization in a city south of Washington, D. C., it

COMING EXHIBITIONS.

August 15-18, Houston, Texas. Trade Exhibition in connection with S. A. F. Convention.

August 24-25.—Lewiston, (Me.) Annual Flower Show, Gardeners' Union, Lewiston City Hall.

July 26-27, Southampton, L. I., N. Y.—Southampton Horticultural Society.

July 26-27, Southampton, N. Y.—Tenth Annual Flower Show, Southampton Horticultural Society.

August 3, Oyster Bay, L. I., N. Y.—Dahlia Show, Oyster Bay Horticultural Society.

August 11-12-13, Boston.—American Gladiolus Society, Horticultural Hall.

August 24, Worcester, Mass.—Gladiolus Exhibition.

Sept. 2-9, Cleveland, Ohio.—Industrial Exhibition and Fair.

Syracuse, N. Y., Sept. 11-16.—New York State Fair.

Sept. 12-13, Providence, R. I.—Rhode Island Horticultural Society, Narragansett Hotel.

Sept. 11-16, Syracuse, N. Y.—Seventy-Sixth Annual New York State Fair.

is expected that it will be a record breaker in the matter of attendance, because the trip to the South will be a popular one in October and there will, no doubt, be a large attendance of park executives of cities of the South which have been advancing rapidly in recent years in the way of park development.

Mr. Wm. Allen, Secretary of the New Orleans Association of Commerce is chairman of the local committee on arrangements. Announcement will be made later of the convention program in detail. The officers of the organization are: Emil T. Mische, president, Portland, Oregon; Roland W. Cotterill, secretary, Seattle, Washington.

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

The attendance at the regular meeting, Friday evening, July 14, was all that could be desired. There was a nice display of seasonable flowers for which the following awards were made. Jas. Linane, honorable mention Japan iris; Owen A. Hunwick, Trachelium coeruleum; John Andrew, Japan iris; P. W. Popp, Phlox Rickard, vote of thanks. Mr. A. J. Micklars, of Stumpp & Walter Co., was a visitor. The summer show committee reported a grand success financially as well as socially and artistically. The fall show committee reported progress. A feature of the next meeting will be the vases of outdoor flowers arranged by assistant gardeners only.

The annual outing will take place Tuesday, Aug. 8, at Rye Beach, N. Y. There will be plenty of entertainment for old and young. The hotel management will serve a fine shore dinner. It will be necessary for those who desire the shore dinner to notify W. J. Sealey, Portchester, N. Y., at least three days before to insure plenty of food and good service. Dinner tickets for the men will be \$1.75; women, \$1.50. The next meeting will be held Aug. 11th.

P. W. Popp.

ST. LOUIS FLORIST CLUB MEETING.

A delightful time was had at the July meeting which was held on the grounds of the Bourdet Floral Co. The attendance was nearly 75. After an inspection of the greenhouses President Bourdet called the meeting to order on the lawn. The picnic committee said that everything was in readiness. All other committees, including the Spring Flower Show, reported progress. Nomination of officers next took place. They are as follows: Jules Bourdet for president; W. S. Wells, Aug. Hummert and F. X. Gorly for vice-presidents; J. J. Beneke and J. J. Windler for secretary; W. C. Smith for treasurer, and Frank Windler for a three-year trustee. Election will follow at next meeting. Nominations for outdoor meetings for the next three months were as follows: August 10, at the John T. Davis estate, gardener S. Beer extending the invitation; September at Sanders' Nursery, C. C. Sanders extending the invitation; October at the new home of the St. Louis Wholesale Cut Flower Co., 1410 Pine street, D. G. Geddis extending the invitation. President Bourdet set up a fine lunch for which a rising vote of thanks was extended.

NASSAU COUNTY HORTICULTURAL SOCIETY.

A Sweet Pea exhibition was held in conjunction with the monthly meeting of the Society at Glen Cove, N. Y., on Wednesday evening, July 12. The exhibits were of very good quality and made an excellent display. Henry Gaut won 1st prize for 12 varieties of sweet peas, and for six varieties of sweet peas, and special mention for herbaceous flowers. James McCarthy received 1st for 25 white, 25 pink and 25 red sweet peas, and 2nd for 6 varieties of sweet peas. It was decided to hold the annual Chrysanthemum Show in Pembroke Hall, Glen Cove, on November 2nd and 3rd. The society's prizes for 25 white, 25 pink and 25 any other color sweet peas were all captured by Henry Gaut.

JAMES MCCARTHY, Cor. Sec.

TO THE HEART OF LEISURELAND

where woods are cool, streams alluring, vacations ideal. Between New York City (with Albany and Troy the gateways) and

LAKE GEORGE, THE ADIRONDACKS, LAKE CHAMPLAIN, THE NORTH AND WEST

The logical route is "THE LUXURIOUS WAY." Largest and most magnificent river steamships in the world—DAILY SERVICE.

Send for free copy of Beautiful "Searchlight Magazine"

HUDSON NAVIGATION CO.

Pier 32, North River

New York

"The Searchlight Route"



WEED KILLER

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

P.-L. CHEMICAL CO., 507-509 W. 19th St., New York

CORRESPONDENCE SOLICITED.

NEW HAVEN COUNTY HORTICULTURAL SOCIETY.

At the regular meeting of this society last week a Gladiolus Show was decided upon and it will be given in the Carnegie Library building, West Haven. The Iris Show and the Rose Show have been such great successes that there is not the slightest doubt of the success of the Gladiolus Exhibition.

W. E. Davis, Jr., of Whitneyville, advocated the establishment of a Rose Garden in New Haven. The people here should not be content to see Hartford carrying off all the honors in this respect. Mr. Davis said that if the city could not spare the money the only thing to do was to raise the money by popular subscription. John H. Murray, head gardener of the Yale Botanical Gardens, thought that at least ten thousand dollars would be needed, because the mere preparation of the soil would be a great expense. Mr. Davis thought, however, that if \$1,500 to \$2,000 were raised, it would be a beginning—and this beginning would be an inspiration to others to give.

HOLYOKE AND NORTHAMPTON GARDENERS' AND FLORISTS' CLUB.

The regular meeting was held July 11th at Bonnie Brae, Holyoke, the estate of C. E. Mackintosh. George Strugnell has been in charge of these gardens for several years and is well known in this district for his all-round ability. Members enjoyed a stroll through the flower garden and vegetable quarters, noting with satisfaction the flourishing appearance of the crops. A large cherry tree, laden with luscious fruit came in for special attention.

D. J. Gallivan extended an invitation to hold the annual picnic on his farm at Smith's Ferry. The offer was accepted, but the date depends on the progress of the sweet corn, which is an indispensable item for this occasion.

H. E. Downer read an essay on "Herbaceous Perennials," and exhibited sprays of Schillea, Perry's White, Thalictrum Fendleri and Pentstemon Gloxinoides.

NEW YORK FLORISTS' CLUB.

President Henry Weston has appointed Walter F. Sheridan, Chairman, Emil Schloss, J. A. Fiesser, W. H. Siebrecht, Joseph Fenrich, Roman J. Irwin and Peter Duff a nominating committee to select candidates for office for 1917. This committee is to make its report at the November meeting of the Club.

JOHN YOUNG, Sec'y.

CLUB AND SOCIETY NOTES

Secretary Thomas Edward Tyler was awarded two blue ribbons and a red and yellow one each for orchids exhibited at the recent meeting of the Garden Club of Allegheny County.

The Newport, (R. I.) Garden Club will hold its annual flower and fruit show in conjunction with the Newport Horticultural Society on the lawns of the Hill Top Inn, August 15, 16 and 17, with tea and dancing in the afternoons.

The annual meeting of the Cincinnati Florists' Society took place on July 10th. The following officers were elected: William Schumann, president; James Allen, vice-president; Alex Ostendarp, secretary; J. Chas. Murphy, treasurer; Gus Adrian, director.

At a preliminary meeting held in the flower store of Spear & McManus, on Asylum street, Hartford, Conn., on July 7, it was voted to organize "The Florists' Club of Hartford." A committee was appointed to draw up a constitution and by-laws and report at a later meeting. William Doogue was chosen temporary chairman, and A. Dixon, temporary secretary.

At the recent meeting of the Horticultural Society of Western Penna., "Roses" was the topic for discussion. There was also an excellent display of hybrid teas by John Murphy and Michael Curren, both of Sewickley Heights, and Mr. Allen. The latter also showed hybrid perpetuals. The society decided to suspend its sessions until September. Meanwhile a new meeting place will be selected. "Dahlias" will be the subject of the next program, the participants to be announced later.

The last meeting of the Connecticut Horticultural Society prior to the summer vacation was held in the County Building, Hartford, on July 14. The secretary was instructed to extend a hearty vote of thanks to the Park Department for the beautiful exhibits of bedding plants at the recent show. It was also voted to award to Fred Boss, head gardener at Elizabeth Park, a first-class diploma for the arrangement of the exhibit. President Halister came in for a shower of praise for his success in handling the show.

ALFRED DIXON, Sec.



NIKOTEEN

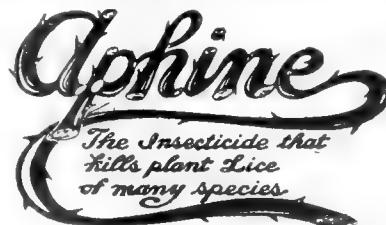
For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer For It.

NIKOTINE MFG. CO.
ST. LOUIS



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago



IMP.
SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON

Est. 1765

Inc. 1904

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**GREENHOUSES BUILDING OR
CONTEMPLATED.**

Baltimore, Md.—M. Hilpert, additions.

Springfield, O.—N. J. Shingledecker, one house.

Spokane, Wash.—Peters & Sons, two houses.

Manistique, Mich.—E. N. Johnson, house 25x60.

Rice Lake, Wis.—Rice Lake Greenhouses, additions.

Painesville, O.—Wilson's Flower Shop, three houses.

Montgomery, Ala.—Rosemont Gardens, conservatory.

Whitestone, N. Y.—J. M. Keller Co., range contemplated.

Mt. Prospect, Ill.—C. J. Homeyer, carnation house 28x100.

Pawtucket, R. I.—Mrs. Mayer, 150 Stearns street, house 12x30.

Oxen Hill, Md.—Wm. Sharper, 100 ft. carnation house, completed.

Salem, Mass.—Ropes Memorial Estate, Federal Court, one house.

Fort Wayne, Ind.—W. J. & M. S. Vesey, four 200 ft. orchid houses.

Williamsport, Pa.—Kane Greenhouses, Oscar S. Manguson, prop., one house.

Chicago, Ill.—Peter Pearson, Gun-nison street, one house and bulb storage house.

NEW CORPORATIONS.

Mt. Pleasant, Mich.—Michigan Seed Farms, capital stock, \$50,000.

Syracuse, N. Y.—Russell Bros., growers of plants, shrubs and vegetables. Incorporators, C. M., E. H. and L. E. Russell.

Milwaukee, Wis.—Eschrich Nurseries, Inc., capital stock, \$5,000. Incorporators, William and Anna Eschrich and Levi Walthal.

Akron, O.—Portage Nursery & Landscape Co., capital stock, \$5,000. Incorporators, Richard and Freda Beck, Stephen Barczik, D. W. Kaufman and H. J. Steiner.

Greensburg, Ind.—Clark-Bertsch Floral Co., capital stock, \$50,000, to grow trees, shrubs and flowers. Incorporators, Robert C. and Wilbert A. Bertsch and Ira Clark.

PATENT GRANTED.

1,189,047. Plant-Growth Promotor. Edmund S. Boyer, Somersworth, N. H.

Fort Wayne, Ind.—The Berrydale Gardens, growers of calla and freesia bulbs, will remove shortly from San Jose, California, to this city.



Before you start remodeling your houses it will be a big help to you if you will keep our catalog before you which thoroughly illustrates and describes our complete line of Ventilating Apparatus and Greenhouse Fittings.

This can be had for the asking from

ADVANCE CO.

RICHMOND, - - - IND.

CYPRESS GREENHOUSE STOCK**PECKY CYPRESS BENCH STOCK****HOT BED SASH***Ask for Circular D and Prices***THE A. T. STEARNS LUMBER COMPANY****NEPONSET, BOSTON****DREER'S "Riverton Special" Plant Tub**

No.	Diam.	Ea.	Doz.	106
10	20 in.	\$1.60	\$17.50	\$145.00
20	18 in.	1.45	15.50	130.00
30	16 in.	1.10	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

**Evans 20th Century Arm**

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

**STANDARD FLOWER
POTS**

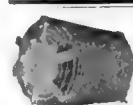
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST
28th & M Sts., Washington, D. C.

THE FLORISTS' HAIL ASSOCIATION

Is a mutual organization, insuring greenhouse glass against hail. Both commercial and private establishments are accepted. For particulars, address

John G. Esler, Sec., Saddle River, N. J.
Insure Now.

**NON-KINK WOVEN HOSE**

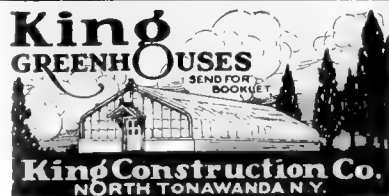
In any length (one piece) with couplings, 14c. per foot. Unequaled at the price. Remnants, shorter than 50 feet, 10c. per foot, with couplings.

HOSE VALVE—70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.



FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, CHICAGO, ILL.

SHARP, PARTRIDGE & CO.

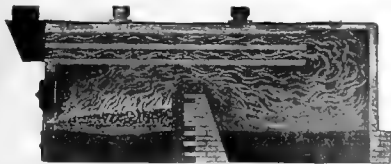
Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

KROESCHELL BOILER

SEND FOR CATALOGUE



KROESCHELL BROS. CO.
466 W. Erie St. Chicago, Ill.



EVERYTHING FOR THE GREENHOUSE
John C. Moninger Company

CHICAGO NEW YORK
922 Blackhawk St. 812 Marbridge Bldg.
CINCINNATI, 2314 Union Central Bldg.

Dreer's Peerless Glazing Points

For Greenhouses

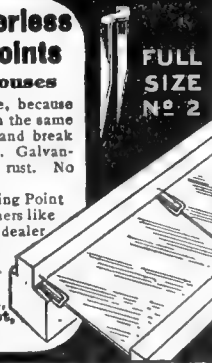
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2



MASTICA

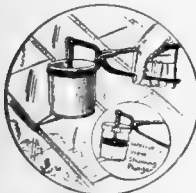
For Greenhouse
Glazing

USE IT NOW

F. O. PIERCE CO.
12W. BROADWAY
NEW YORK



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



Will last a life-time.

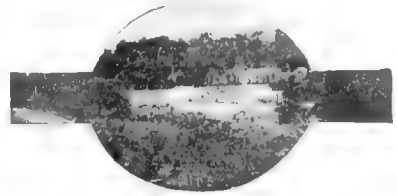
\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

Seal-tight liquid putty at \$1.25 per gallon.
METROPOLITAN MATERIAL CO.
1392-1414 Metropolitan Ave., Brooklyn, N. Y.

"METROPOLITAN"

The Sign of Superiority



The success of your greenhouse depends largely upon the results previously shown by the builder you employ.

Therefore, every grower should investigate the capabilities of the greenhouse builder he selects for the job.

The above full iron frame, patented curved eave Metropolitan greenhouse was erected by us for Mr. W. W. Fuller, at Briar Cliff Manor, N. Y. This house is 26 x 100 feet, with an absolutely water proof cement boiler cellar. It is divided into three compartments which are separately heated and ventilated, and, being glazed with 24 x 24 inch glass, is extremely light. We also did the masonry.

PUT YOUR GREENHOUSE PROBLEMS UP TO US

We go anywhere in the U. S.
to submit plans and prices.

METROPOLITAN MATERIAL CO.

Patented Greenhouses

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

PATENTS

Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

GLASS

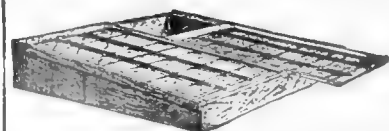
**GREENHOUSE MATERIAL
HOT-BED SASHES**

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

When writing to advertisers kindly
mention HORTICULTURE.



HOTBED SASH at 75c. each
Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.
Double Light Sash up to \$4.00.

We carry a large stock of all sizes.
Write us for estimate.

S. JACOBS & SONS
1359-1385 Flushing Avenue BROOKLYN, N. Y.



A Bundle of Goodly Glass Garden Suggestions

HERE are four good suggestions, and one for a conservatory. Every one is thoroughly practical; every one is promptly erected for you.

That small one in the upper left hand, is 18 feet wide and 33 long. We erected it for Mr. Henry E. Woodman, of Overbrook, Pa. It is just a nice, compact, one compartment little conservatory with enough room for a surprising number of plants.

The one at the bottom left is 18x70 feet, divided in two compartments and connected to the stone gateway by a glass passage, which makes another compartment. Mr. W. S. Dooling of Mt. Airy, Phila., Pa. is the satisfied owner. That conservatory interior in the center is a creation of Hoggson Bros., which we carried out for them on R. R. Conklyn's residence at Huntington, L. I. It's a unique idea well worth adopting.

The long one in the top right, with a central entrance, is 25 by 100 feet with three compartments, each about 33 feet long. A 10-foot glass passage comes pretty close to covering the needs of a very large plan.

The one in the top right is just a glimpse of the exterior. It is a very large conservatory erected several years ago on the Longwood estate at Brookline, Mass.

Here then is a goodly bundle of suggestions. Which one do you want to have? With assistance we can give you an approximate estimate on?

Our greenhouses have been aptly called "the houses of the future." They are well worth the investment.

Our catalogues are welcome to.

An appointment with our representative to call you gladly to make it very pleasant.

NEW YORK
42nd Street Bldg.
BOSTON
Tremont Bldg.
ROCHESTER
Granite Bldg.

Lord & Burnham Co.

CLEVELAND
Swetland Bldg.

TORONTO
Royal Bank Bldg.

PHILADELPHIA
Widener Bldg.
CHICAGO
Rookery Bldg.

MONTREAL
Transportation Bldg.

FACTORIES: Irvington, N. Y. Des Plaines, Ill. St. Catharines, Ontario

Vol. XXIV
No. 5
JULY 29
1916

HORTICULTURE



The Burpee Sweet Pea Exhibit at Bar Harbor

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription, \$1.00

GERANIUMS

Alphonse Ricard, Beaute Poltovine, S. A. Nutt, Gen'l Grant, Mad. Buchner, Mad. Recamier, Jean Oberlee, Abbie Schaefer, Mad. Landry, La Favorite, Jean Viand and other good kinds, in good 3-in. stock at \$3.00 per 100, \$25.00 per 1000; 2-in. at \$2.00 per 100. We have a large stock on hand for immediate shipment and are booking orders for next season.

BOSTON FERNS, 4 inch, \$1.00 per 100; 7-inch, \$6.00 per doz.; 8 inch, \$1.00 each, \$9.00 per doz. Large plants in 11 and 12 inch pots, \$2.50 and \$5.00 each.

	2-in.	2-in.	3-in.	3-in.		2-in.	2-in.	3-in.	3-in.
	100	1000	100	1000		100	1000	100	1000
ALYSSUM, Dwarf and Giant.....	\$2.00	\$18.50	\$3.00	\$25.00	PARLOR IVY, S. Scandens.....	\$2.00	\$18.50	\$3.00	\$25.00
COLEUS, ten varieties.....	2.00	18.50	3.00	25.00	POMPON CHRYSANTHEMUMS ..	2.00	18.50	3.00	25.00
CUPHEA PLATYCENTRA	2.00	18.50	3.00	25.00	SALVIA, Bonfire and Zurich.....	2.00	18.50	3.00	25.00
LEMON VERBENAS, six varieties.	2.00	18.50	3.00	25.00	SWAINSONA, White.....	2.00	18.50	3.00	25.00
MOONVINES	2.00	18.50	3.00	25.00					

CELERY, White Plume, Giant Pascal and Golden Heart \$1.00 per 1000; 10,000 and over 85c. per 1000.

PARSLEY, Dwarf Fern leaf; 25c. per 100, \$1.25 per 1000.

CABBAGE, \$1.00 per 1000; 10,000 and over 85c. per 1000.

CASH WITH ORDER.

R. VINCENT, Jr., & SONS CO.,

WHITE MARSH,
MD.

LILY OF THE VALLEY PIPS

Danish and German Stock

Booking Orders now for
1916 Crop

LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

CHAS. SCHWAKE & CO., Inc.

Valley

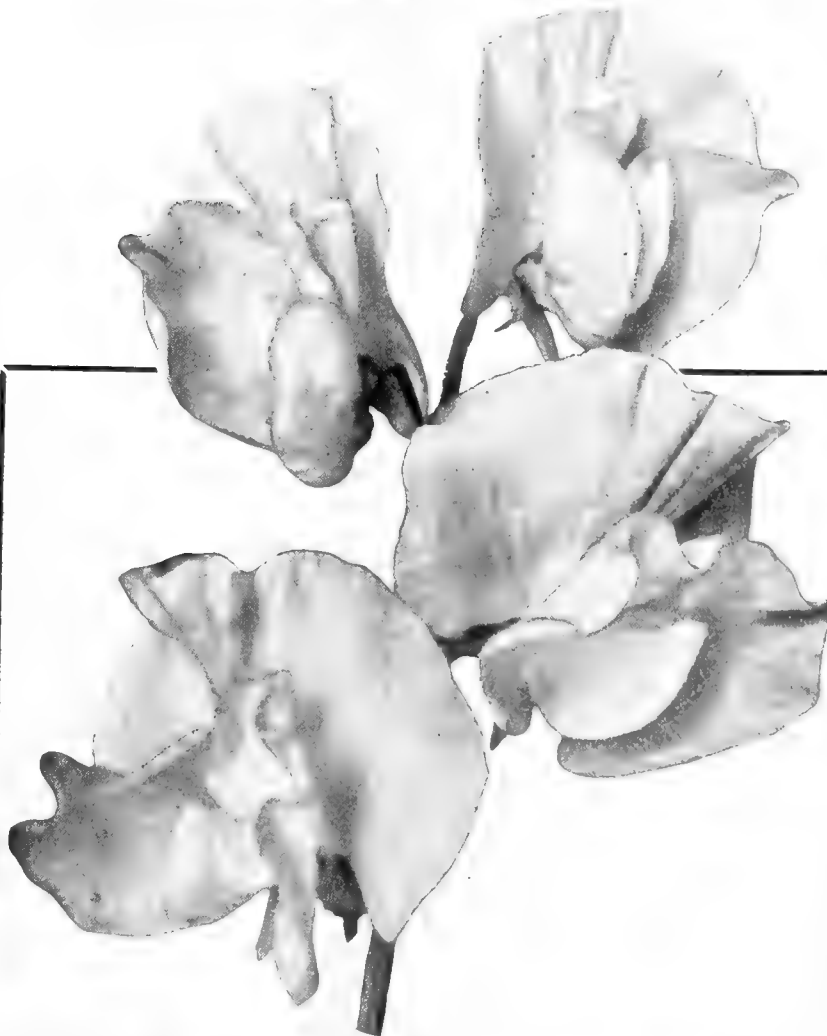
GERMAN, SWEDISH
AND DUTCH PIPS

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....139	Craig, Robt. Co.134	Hail Association.158	McManus, Jas...150	Pierce Co., F. O.159	Smith, P. J.....150
Albany Cut	Crawbuck, Geo.	Hart, Geo. B.....150	McConnell, Alex.144	Pierson, A. N....133	Smith & Fetters.145
Flower Ex.....150	W. Co.....151	Henderson, A. &	MacNiff Horticul-	Pierson, F. R....134	Smith, W. & T.
Allen, J. K.....151	Dards.....144	Co.....143	tural Co.....141	Pino-Lyptol Co.157	Nursery Co.....141
Anderson, S. A.145	Davenport, A. M.133	Hentz & Nash...150		Poehlmann Bros.	Smyth, Wm. J.145
Anglin & Walsh.141	Dreer, H. A.158-159	Hess & Swoboda.145		Co.....148	Stumpp, G. E. M.144
Appline Mfg. Co.157	Dorner, P. &	Hews, A. H. &		Randall's Flower	Stumpp & Walter
Badgley & Bishop,	Sons Co.....132	Co.....158		Shop.....144	Co.....144
Inc.....150	Dunlop, John H.145	Hill, E. G. Co....148		Reed & Keller..148	Thorburn, J. M.
Barrows & Son.132	Dysart, Robt....151	Hill, D. Nursery		Riedel & Meyer..150	& Co.....143
Bayersdorfer, H.	Eastern Chemical	Co.....141		Ried, Edw.....148	Totty, Chas. H.132
& Co.....147	Co.....157	Hitchings & Co..160		Reuters'.....145	Traendly &
Bay State Nur-	Edwards Folding	Holland Nurser-		Robinson, H. M.	Schenck.....150
series.....141	Box Co.....148	ies.....141		Co.....150	United Cut Flower
Bobbink & At-	Elliott Auction	Holm & Olson...144		Roehrs, J. Co....133	Co.....151
kins.....141	Co.....134	Hudson Naviga-		Roland Thomas.144	Valentine, J. A.144
Boddington, A. T.130	Ernest, W. H....158	tion Co.....156		Rolker, A. &	Sons.....141
Boigiano & Son.143	Esler, J. G.....158	Irwin, R. J.....134		Sons.....141	Rosery, The.....144
Breck, J. & Sons.143	Evans, J. A. Co.158	Jacobs, S. &		Salter Bros.....145	Salter Bros.....145
Brietmeyer's J.	Eyros.....145	Sons.....150		Schling, Max....144	Schwake, Chas.
Sons.....144	Farquhar, R. &	Kasting, W. F.		Co.....131	Sharp, Partridge
Budlong, J. A....148	J. & Co.....143	Co.....148		Co.....131	& Co.....159
Bunyard, A. T....144	Foley Mfg. Co. 159	Keller, J. B.		Sherridan, W. F.150	Skidelsky, S. S.
Burnett Bros....143	Ford, W. P.....150	Sons.....141		Siebrecht, Geo. C.150	& Co.....143
Burpee, W. A. &	Ford, M. C.....150	Kerr, the Florist.145		Schrodt, W. R.150	Smith, J. H. &
Co.....132	Frost, Chas....123	Kervan Co.....150		Siggs & Sig	Sons.....146
Carnation Support	Froment, H. E. 150	King Construc-		gers.....159	Smith, Elmer D.
Co.....141	Galvin, Thos. F.145	tion Co.....158		Skidelsky, S. S.	& Co.....132
Carter's Tested	Gasser Co., J. M.145	Knoble Bros....145		& Co.....143	
Seeds, Inc.....142	Graham, Adam &	Kramer, F. H....145		Smith, J. H. &	
Child's, John	Son.....145	Kroeschell Bros.159		Sons.....146	
Lewis.....132	Grey, Thos. J.	Kuebler, W. H.150		Smith, J. H. &	
Clark's D., Sons.144	Co.....143	Lager & Hurrell.133		Sons.....146	
Clucas, R. W....134	Gude Bros., Co.144	Lange, H. F. A.145		Smith, Elmer D.	
Coan, J. J.....151	Gutthor Bros....151	Leonard Seed Co.145		& Co.....132	
Cooke, Geo. H....144	Guttman & Ray-	McHutchison &			
Cowee, W. J....148	nor.....150	Co.....134			

FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 152, 153, 154, 155



BURPEE'S EARLY OR WINTER-FLOWERING SPENCERS

The House of Burpee has long been recognized as "American Headquarters for Sweet Peas," and our introduction of these Fordhook Strains of Winter Flowering Spencers marks an era in commercial Sweet Pea growing.

The Novelties offered below, excepting Yarrawa, are the results of crosses made at our Fordhook Farms during the past seven seasons. All stocks are grown at our Floradale Farm, "The California Home of Sweet Peas."

FORDHOOK PINK AND WHITE:—A most popular Winter Flowering Spencer. A color that is always in demand, similar to the old Blanch Ferry, Bright rosy pink standard, wings almost pure white. The immense flowers measure 2½ inches in diameter and are almost perfect in form. A very early, free and continuous bloomer, awarded a Certificate of Merit at the Spring Show of the Pennsylvania Horticultural Society, Philadelphia, March, 1915, and the American Sweet Pea Society, San Francisco, June, 1916. ¼ oz., \$1.25; ½ oz., \$2.00; oz., \$3.50.

FORDHOOK PINK:—This is a distinct shade of pink suffused with lavender throughout. Flowers are large size, exquisitely waved, produced in threes and fours on long stems. ¼ oz., 40c; ½ oz., 75c; oz., \$1.25; ¼ lb., \$3.50; ½ lb., \$6.25; 1 lb., \$12.50.

FORDHOOK ROSE:—Introduced by us in 1915. Flowers of largest size usually borne in threes and fours. A charming shade of rosy carmine. Awarded a Certificate of Merit at the International Show, New York, March, 1915, and the Spring Show of the Pennsylvania Horticultural Society, Philadelphia, March, 1915. ¼ oz., 50c; ½ oz., 85c; oz., \$1.50; ¼ lb., \$4.00; ½ lb., \$7.50; 1 lb., \$15.00.

YARRAWA:—This magnificent Australian variety has proved its unusual merit with commercial growers in all parts of the country. It has an exceptional reputation as a sure money maker. First exhibited by us at the great International Show in New York, March, 1914, and awarded a Certificate of Merit by the Pennsylvania Horticultural Society, March, 1915. Flowers exquisitely waved, averaging 2½ inches in diameter, many of them being duplex or double. A bright rose pink with a clear creamy base. ¼ oz., 55c; ½ oz., 60c; oz., \$1.00; ¼ lb., \$2.75; ½ lb., \$5.00; 1 lb., \$10.00.

Our Special Leaflet on Winter Flowering Sweet Peas free on application.

W. ATLEE BURPEE & CO.

Seed Growers

BURPEE BUILDINGS

PHILADELPHIA

OUR EXHIBIT OF GERMAN IRIS

Won FIRST PRIZE at the

International Garden Club, Summer Show, Pelham Manor
June 1-4, 1916

JOHN LEWIS CHILDS, INC.,
FLOWERFIELD L. I., N. Y.

CHRYSANTHEMUMS

From 2½-In. Pots

Thanksgiving Queen, Unaka, Dolly Dimple, Elise Papworth, Intensity, Golden Dome, John Shrimpton, Lynnwood Hall, Patty, Yellow Eaton, Unaka.

\$4.00 per 100, \$30.00 per 1000.

Autumn Glory, Ada Spaulding, Cullingfordii, Dr. Enguehard, Early Snow, Golden Glow, Geo. Kalb, Glory of the Pacific, H. W. Rieman, Money Maker, Maud Dean, Monrovia, Mrs. J. Jones, Miss Alice Byron, Mrs. Baer, Major Bonnaffon, Polly Rose, Pacific Supreme, Robt. Halliday, Smith's Advance, White Bonnaffon, W. H. Lincoln and Timothy Eaton.

\$3.00 per 100, \$25.00 per 1000.

WOOD BROS., FISHKILL, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ELMER D. SMITH & CO. CHRYSANTHEMUMS

Ask for Catalogue

ADRIAN, - - - MICH.

CHARLES H. TOTTY

CHRYSANTHEMUMS
MADISON, N. J.

LILY BULBS

RALPH M. WARD & CO.
71 MURRAY ST., NEW YORK

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.

WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.

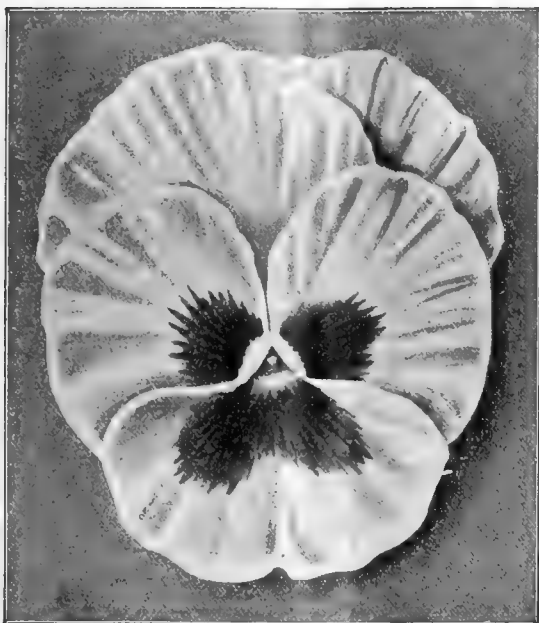
ROOSEVELTS—\$5 per 100, \$40 per 1000.

BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

THE KENILWORTH GIANT PANSY



Seeds are all grown by the firm and are offered in the following mixtures and separate colors.

22. **GIANT KENILWORTH STRAIN.** The flowers are of perfect form and substance; many of the immense flowers are from 3½ to 4 inches. It is a striking collection of beautiful colors and markings, rich with shades of rose, brown, bronze, mahogany and many others too numerous to mention. Light, Medium or Dark Mixtures.
23. **GIANT KENILWORTH SHOW.** An extra fine strain of large flowers; the immense flowers are of circular form and great substance. A beautiful collection of colors and markings.
26. **GIANT KENILWORTH CUT FLOWER MIXTURE.** Is a distinct class by itself, surpassing all other strains as a cut flower or for exhibition purposes, for inside or outside growing; the large flowers are carried erect above the foliage on heavy stems, 7 or 8 inches long, in the most graceful manner, and stand the hot, dry weather well.
28. **GIANT MASTERPIECE.** A remarkable type; the curled, wavy petals giving the flower a double appearance; large flowers of great substance, on long, strong stem.
30. **GIANT THREE AND FIVE BLOTCHED PANSIES.** A superb mixture. Flowers large and of circular form and of great substance. The display of coloring is unsurpassed. A combination of almost every shade of rich, velvety colors; reds are particularly conspicuous; the petals being distinctly marked with three or five large, dark blotches.
32. **GIANT PARISIAN.** The flowers are of enormous size and beautifully marked, mostly fine dark blotches on white and yellow ground; an unusually showy mixture.
34. **GIANT BRONZE.** A fine mixture of all shades of velvety brown, bronze, Havana brown, mahogany and copper shades.
45. **GIANT APOLLO (Masterpiece type).** New bronze, veined and blotched. Strongly frilled petals. A superb Pansy.
49. **GIANT MERCURY.** New. A deep blackish purple, really self-colored, without blotches or spots. The flowers are extraordinary in size and substance, being the largest flowers of all self-colored Pansies.
82. **ORCHID FLOWERED, Mixed.** A dwarf, free bloomer, with a range of delicate colors that do not exist in any other Pansies; a remarkable combination of light rose, shell pink, blush, mauve, fawn, light brown, orange and chamois.

New Early-flowering or Winter-blooming Giant Pansies

An entirely new and distinct strain of Pansies. The main advantage of these new Pansies over all hitherto existing Pansies is the extreme earliness of flowering and its unusual hardiness, which enables them to withstand quite severe Winters, and to bloom right on into the Summer. Sown at the same time as other Pansies, they begin flowering the early part of March or as soon as the snow is off the ground, many times having four or five large flowers to a plant, when all other Pansies are only showing buds. The flowers are large, well formed and fragrant. They are highly recommended for Autumn planting on graves and for very early bedding, as well as for early cut flowers.

14. **WINTER SUN.** Golden yellow, with dark eye.
15. **ICE KING.** Silvery white, with dark blue eye.
16. **CELESTIAL QUEEN.** Light or sky blue.
17. **CHARM OF MARCH.** Dark velvety blue.
18. **MIXED.** The above four colors with other shades and variations.

EACH COLOR SEPARATE OR MIXED

500 seeds 50c., 1000 seeds \$1.00, ¼ oz. \$2.00, ½ oz. \$3.75, 1 oz. \$15.00.

20. **PRINCESS.** The New Upright Pansy.

This strain is entirely distinct from all others. It is absolutely compact, upright growing, and extremely weatherproof, enduring many storms without damage to its flower. The flowers are mostly blotched and frilled like the Masterpiece, of good form and heavy, velvety texture, on heavy stems carried well above the foliage. Attractive by the brilliancy of its colors.

500 Seeds 20c., 100 Seeds 35c., ¼ oz. \$1.00, ½ oz. \$2.00, 1 oz. \$7.50.

FREE OFFER RAINBOW is a mixture of the most beautiful, gorgeous colors, blotched, striped, veined, margined, etc. With every \$1.00 worth of Pansy seed I will send, free, 1000 seeds of Rainbow and with other amounts in like proportion.

Prices of Kenilworth Pansy Seed

All sorts and mixtures except the new Pansy Princess and the Early Flowering or Winter Blooming are \$5.00 per oz., \$1.25 per ¼ oz.; 5000 seeds \$1.00; trade pkt. of 1000 seeds 25c.; and 5 pkts. \$1.00. Please order by number.

GIANT PANSY SEED

In Separate Colors

38. **Mme. Perret.** Red and wine shades.
42. **Adonis.** Light blue, white center.
44. **Black.** Almost coal black.
48. **Lord Beaconsfield.** Purple, shaded white.
64. **Goliath.** Large, curled yellow, blotched.
68. **Emp. William.** Ultramarine blue, violet.
72. **Emp. Franz Joseph.** White, blotched blue.
98. **Indigo Blue.** Deep, velvety blue.
100. **Light Blue Shades.**
106. **Pres. McKinley.** Yellow, dark-blotched.
114. **Purple.** Large, rich, deep color.
118. **Psyche.** Curled white; five blotches.
126. **Red.** A collection of rich red shades.
137. **Vulcan.** Dark red, with five blotches.
138. **White.** Large satiny white.
140. **White with Violet Blotch.**
142. **Yellow.** Large, gold, yel.
144. **Yellow with Dark Blotch.**
145. **The preceding 18 colors separate or mixed. Mixed in equal proportions, 1000 seeds 25c.; any 5 packets, \$1.00.**

Chas. Frost
Kenilworth, N. J.

FERNS IN FLATS

Eight Best Varieties—200 Clumps to a Flat

\$2.00 per flat; 10 or more flats, \$1.90 each

A. M. DAVENPORT, Watertown, Mass.

A. N. Pierson, Inc.

CROMWELL, CONN.

Bedding Plants and Roses

ORCHIDS

CONSERVATORY PLANTS
BEGONIAS

Lorraine, Cincinnati and Mrs. Peterson

JULIUS ROEHRS CO.

Rutherford, N. J.

ORCHIDS

We grow and sell nothing but **ORCHIDS**. If you are in the market for this class of plants we respectfully solicit your inquiries and orders. Special lists on application.

LAGER & HURRELL, Summit, N. J.

ORCHIDS

Just received a grand importation of Lycast Skammerii. We also carry a choice line of established plants at all times. Write for prices now.

PAUL DE NAVE

ORCHID GROWER.

Tel. Connection. FALL RIVER, MASS.

Early Flowering LONG SEASON Spencer Sweet Peas

for Winter Flowering Under Glass

Since the introduction of Yarrowa Spencer Sweet Peas, great effort has been made on the part of Californian and Australian growers to produce Early-flowering Spencer Sweet Peas. We offer a list of varieties by one of the most prominent Californian and one of the most prominent Australian growers. One of their chief characteristics is their long season, period of blooming, frequently remaining in bloom for four months. Every one of the crosses were made from the old Early-flowering or Christmas Grandiflora types on the late or Standard Spencers as parents. We feel that there will be little demand for the common or Grandiflora Winter-flowering Type and have, therefore, decided to discontinue offering the same.

Californian Varieties Ready for Delivery August—September

EARLY MORNING STAR

The color is a deep orange scarlet or flame color in standard, with rich, orange-pink wings. The flower is practically the same color as the Late-flowering Spencer Thomas Stevenson. It does not burn out in the open and under glass will be magnificent. The flowers are large and of best Spencer form, and borne in threes and fours in wonderful profusion. Pkt., 15 seeds, 25c.; ¼ oz., \$1.50; oz., \$5.00.

EARLY SNOWFLAKE

This is one of the best Early-flowering White-seeded White Spencers. The blossoms are very large and of the best waved Spencer form. The flowers are borne in wonderful profusion on long stems. The form is every bit as good as White Spencer. Pkt., 15 seeds, 25c.; ¼ oz., \$1.50; oz., \$5.00.

EARLY SPRING MAID

Those who are familiar with the Late-flowering Spencer Mrs. Hugh Dickson, will have a good idea of what a handsome variety this is. The color is a light pink on a cream ground, and the blossoms have the same splendid characteristics of Mrs. Hugh Dickson for a florists' flower. It is a most effective flower and, like our other Early-flowering Spencers, it carries a great wealth of blossoms borne in fours on long stems. There is no Early Spencer Cream Pink which is as attractive as Early Spring Maid. Pkt., 25 seeds, 25c.; ¼ oz., \$1.25; oz., \$4.00.

Australian Varieties

CONCORD STRAIN

Pkt., 18 seeds each of any of the following varieties, 35c.; 5 pkts., \$1.50

CONCORD PINK. A beautiful, new variety of a most attractive shade of delicate pink. The flowers are large and of true Spencer form. The stems, which are long and strong, usually carry 3 large flowers.

CONCORD CRIMSON. A variety of great merit on account of its glowing color. It is a rich crimson; the flowers, of true Spencer form, are borne on strong, stiff stems.

CONCORD LAVENDER. Without a doubt this is the finest of all Lavender Winter-flowering Sweet Peas. The color is a beautiful shade of rich, rosy lavender. The flowers are of true Spencer form.

CONCORD WHITE. A splendid, pure white variety of wonderful vigor and

EARLY MELODY

This is a deeper shade of pink than Early Song Bird on white ground, closely resembling Countess Spencer and near Hercules. It might be described as rose pink on white ground. The effect, when bunched, is most pleasing. It is very floriferous. The flowers are borne on long stems and mostly four large, well waved blossoms to each stem. Pkt., 25 seeds, 25c.; ¼ oz., \$1.25; oz., \$4.00.

EARLY SONG BIRD

The flower is the same color as Florence Morse Spencer and Lady Evelyn Eyre, and a bit lighter than Elfrida Pearson. It has the same excellent form and features of Mrs. Hugh Dickson, but is on a white ground. The placement of the flowers is splendid for packing and the flowers are borne on long stems in threes and fours. When in full growth it seemed as though every stem carries four large blossoms. Pkt., 25 seeds, 25c.; ¼ oz., \$1.25; oz., \$4.00.

EARLY HEATHER BELL

This will be one of the most popular shades with all florists, as it will be useful for making up for any occasion. It is a little like the variety known as Anita Wehrman, but vastly superior in every way. The flowers are very large, borne in fours and threes on long, stout stems, and are of beautiful, bold Spencer form. The color is a rich but pleasing mauve, but after standing in water the color becomes a beautiful mauve lavender. Pkt., 25 seeds, 25c.; ¼ oz., \$1.50; oz., \$5.00.

Ready for Delivery NOW

substance. The flowers are pure white and of ideal Spencer form, borne three and four to the stem.

CONCORD SALMON. A rich shade of salmon pink and very free flowering. The flowers are borne three and four to a stem and are of true Spencer form.

CONCORD BLUE. This magnificent variety is of a beautiful sky-blue color, sometimes varying darker, the variation, however, being slight. Quite the finest sky-blue we know of.

CONCORD PURPLE. A leader in its color. When first opening, a delightful shade of mauve purple, changing, as the flower ages, to purple blue. The flowers are of ideal Spencer form and quite large.

PLACE YOUR ORDERS NOW

Stumpp & Walter Co.

30-32 BARCLAY STREET

Dept. C.

NEW YORK CITY

LILY BULBS

Fall Shipment from Japan

Prices quoted F.O.B. New York, Chicago, Denver, San Francisco and London (Ont.)

Write for quotations stating quantity, variety and size required.

McHUTCHISON & CO. The Import House
95 Chambers St., New York

OLDEST AUCTION HOUSE

IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co.
42 Vesey St., New York

REMEMBER!

If it's a Hardy Perennial or so called Old Fashion Flower worth growing, we have it in one shape and another the year round. We have the largest stock in this country, all made in America, and our prices

will average 75c. per doz., \$5.50 per 100.

Why say more here? Send for our Wholesale Price List of varieties and benefit from the opportunities this affords you. Address

PALISADES NURSERIES, Inc.

R. W. CLUGAS, Manager.

SPARKILL - - N. Y.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

CANNAS, 3 Inch Pots

In the very best varieties—
\$3.00 per 100—\$25.00
per 1000

ROMAN J. IRWIN
108 W. 28th St., New York.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, - N. Y.

When writing to advertisers kindly mention HORTICULTURE.

NOTES ON CULTURE OF FLORISTS' STOCK

(CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toll, we ought to blame the culture, not the soil."—*Lope*.

Callas

Roots that were grown in pots or benches last season, have had a good rest and are now starting sturdy crown growth, are good for another season. But if they are anyway soft or flabby, get some new roots as they are cheap enough and will be better in the end. Shake them out and replant into 5, 6 or 7-inch pots, in fibrous loam three parts and well decayed cow manure one part. See that each has good drainage and place them after potting in a cold frame where they can stay until the first week in September. Give water freely when growth starts, and keep outside as long as there is no danger of frost. The most substantial blooms are grown in a temperature of from 58 to 60 degrees night.

Care of Gardenias

Keep the beds moist and give a good syringing on all bright days to keep down red spider and mealy bug. It will be necessary to thoroughly damp down the house two or three times a day. Attend well to ventilating so as not to cause an unequal temperature. Start in the morning and keep on increasing the ventilation until about 80 degrees is reached with sun heat, and reduce the air in the afternoon the same way until the minimum of 68 or 70 degrees is reached. During cool and dark weather it is better to run a little heat in the pipes, so as to keep a night temperature of about 65 degrees and to dry the house out a bit. Good care from now on will tell the tale.

Cinerarias

Now and up to the middle of September is a good time to sow seeds of cinerarias. Well drained earthenware seed pans are filled with a very sandy mixture of turfy loam and partly decayed leaf mold. After a good watering down the seeds are thinly scattered on the surface, pressed down with a piece of smooth board, and the pans covered with panes of glass. As soon as they afford a hold to thumb and finger a pricking off into other pans or flats is in order, and after they have made four or six leaves pot off into small pots. As they attain size give a shift into larger pots every now and then. The richness of the compost for each shift should be slightly increased.

French Bulbs

The earliest shipments of Roman hyacinths, paper white and trumpet major narcissi are now due any time. Some of each should be placed in flats at once. The paper whites can remain in light all the time, but the Roman hyacinths, and trumpet majors are better kept in a cellar, or if in a lighter place, given a coating of coal ashes after being well watered. The top of each bulb when planted should be even with the surface of the soil. Make the soil around the bulbs moderately firm. When well rooted they can be brought into

a light house and at a temperature of 60 degrees they will be in flower in seven or eight weeks. The paper whites are easily flowered in November, but the hyacinths and trumpet majors come later, usually being in good shape for Christmas. Watch all bulbs after planting and see that they do not become dry at the roots.

Harrisii Lilies

Bermuda lilies are now about due. If they are wanted to bloom early, pot at once as soon as received. A 5-inch pot will do for a 5x7 bulb; for a 7x9 bulb a 6-inch pot will suit better. Use any good loam with about one-fourth of its bulk of well decayed cow manure thoroughly mixed. Place the bulbs so that after they are potted they will be entirely below the surface of the soil. After a good watering to settle the soil, they should be stood closely together in a frame and covered with 4 or 5-inches of soil so as to keep them cool and moist. In about a month or six weeks most of the bulbs should have made a good start with roots and should then be brought into a sunny house.

Palms: Rhododendrons

Dear Sir:—Would you please suggest a remedy through a later issue of HORTICULTURE for scale on palms? Could you also recommend a safe fertilizer that would stimulate the plants back to a healthy state after treatment? What is the best time to plant our hardy rhododendrons?

Norton, Mass.

A SUBSCRIBER.

I would say sponge the leaves with aphine, giving them quite a little rubbing, using the aphine according to directions and afterwards giving a good syringing with some force. This cleaning should be done about once every two weeks until you have them free of scale. There is no better safe stimulant than liquid cow manure given once a week. A bushel of manure to a barrel of water; that is, 48 to 50 gallons of water. Let it stand for two or three days then apply the liquid to the roots.

The best time to plant rhododendrons is early in the spring just as soon as you can work the ground. It is better to have the ground prepared in the fall by trenching and work in lots of leaf mold. They like a somewhat sheltered situation from the sun in order to do well.

Reminders

Order all bulbs that are needed, without delay.

Pot up Boston and other ferns as they require.

Mark all the best forms of double petunias for stock plants.

A quantity of bulb flats will soon be needed, so see that they are repaired.

Turn potted stock that is plunged outside occasionally to check them from rooting through.

Next Week:—Cattleya gigas; pairing; Feeding Chrysanthemums; Geranium Cuttings; Winter Flowering Sweet Peas; Reminders.

HORTICULTURE

VOL. XXIV

JULY 29, 1916

NO. 5

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.
147 Summer Street, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—The Burpee Sweet Pea Exhibit at Bar Harbor.	
NOTES ON CULTURE OF FLORISTS' STOCK—Callas—Care of Gardenias—Cinerarias—French Bulbs—Harisii Lilies—Palms—Rhododendrons—Reminders— <i>John J. M. Farrell</i>	125
ROSE GROWING UNDER GLASS—Bonemeal—Care of the Boilers—Disbudding—Drainage in Late Planted Benches—Manure for Fall Mulching—Number of Shoots to a Plant— <i>Arthur C. Ruzicka</i>	137
SEED TRADE—The Pea Pack—Reduced Yield of Seed Peas—Beans—Onion Crop Prospects in Canary Islands—One Week's Imports—Notes.....	142
OF INTEREST TO RETAIL FLORISTS: New Flower Stores.....	144
Flowers by Telegraph.....	145
CLUBS AND SOCIETIES—American Sweet Pea Society, George W. Kerr, portrait—Gladiolus Society of Ohio—American Gladiolus Society—Coming Exhibitions—R. R. Rates to Houston—Maryland State Horticultural Society.....	138
Fancy Bedding in Convention Garden, Illustration..	140
Club and Society Notes.....	147
REPORT OF THE SWEET PEA TRIAL GROUNDS— <i>Prof. A. C. Beal</i>	139
THE NEW PEONY SOCIETY— <i>C. S. Harrison</i> — <i>Chas. W. Ward</i>	140
BOSTON FERN SPORELINGS— <i>R. C. Benedict</i>	141
NEWS ITEMS FROM EVERYWHERE: Pittsburgh, Chicago, Philadelphia, New York, Washington, Cincinnati.....	146-147
FLOWER MARKET REPORTS: Boston, Chicago, Cincinnati, New York, Philadelphia, Pittsburgh.....	149
St. Louis, Washington.....	151
OBITUARY—Robert W. Hutchinson.....	151
DURING RECESS—Gardeners' and Florists' Club of Boston—Essex County Florists' Club—Florists' Club of Washington—St. Louis Florist Club—Lancaster County Florists' Association—Waretown Rod and Gun Club.....	156-157
MISCELLANEOUS: Bougainvillea—La France Roses.....	141
Catalogues Received.....	142
News Notes.....	144
Visitors' Register—Business Troubles.....	151
Grubs in Lawn.....	155
To Eradicate Wild Onion.....	157
Floriculture in Ohio State University.....	158
Greenhouses Building or Contemplated.....	158
Patents Granted—New Corporations.....	158

The key
to prosperity

We have been continually impressed when visiting well kept and prosperous growing establishments with the attention given to minor cultural details which many others are apt to regard as non-essentials

and consequently are apt to neglect. This holds true, whether one is considering roses, carnations, sweet peas, plants or other crops, outside or under glass—invariably this ever-watchful care and solicitude that the most trivial minutiae may not be overlooked and neglected marks the grower who wins the coveted distinction, whether this be a trophy at a sweet pea show or a rose exhibition or the commercial remuneration of established demand and top price for any product with which his name may be directly associated.

Friends
of the peony

We print this week pertinent communications on the peony society controversy from two men well known in peony circles—Rev. C. S. Harrison and C. W. Ward. Both of these gentlemen argue in defense of the action of the northwestern peony growers in forming a new society in that section entirely independent of the existing national organization, yet after reading these two letters it does not look like an impossible feat, if the right parties will go about it in the right way, to harmonize the affairs of the old and new organizations and adjust their mutual relationships to the end that each will be a help to the other and the peony itself reap a substantial benefit. HORTICULTURE believes in a multiplicity of organizations but it also believes in order and methodical cooperation voluntarily subject to centralized responsibility. Now is the time to cultivate forbearance and, under good generalship, the exercise of wise diplomacy will work wonders. And if the result of the episode should be to inject a little more "snap" into the councils of the parent society all will probably agree that no harm will ensue.

Our
bird friends

In "Birds in Their Relation to Man," a revised edition of which, just published by the Lippincott Company, includes the results of government investigation of all supposedly harmful species of birds, the authors tell us that of forty or fifty birds, exclusive of hawks and owls, thus far investigated, the English sparrow is the only one which has been condemned. Of seventy-five species of hawks and owls found in America, only six were found to be injurious. And state bounties upon dozens of species have been withdrawn in consequence, state protection being substituted. Only the English sparrow is without the pale, and six states offer a bounty for its extermination. We find, however, that the prejudice against even the English sparrow is far less pronounced of late than formerly, and it would not surprise us to yet see this sturdy little emigrant placed on the friendly list as has been done with so many of the once hated hawks. The English sparrow's voracious appetite for canker worms and young gypsy moth caterpillars is coming to be gratefully recognized by many whose gardens and orchards have suffered from the depredations of these pests. Give him time and he will make good his citizenship.

CONVENTION NUMBER

HORTICULTURE'S ANNUAL S. A. F. CONVENTION NUMBER WILL BE ISSUED ON AUGUST 19, 1916. ITS ACCOUNT OF THE HOUSTON PROCEEDINGS WILL BE EAGERLY LOOKED FOR BY THOUSANDS OF READERS.

YOUR ADVERTISEMENT

IN THIS SPECIAL ISSUE WILL COMMAND THE ATTENTION OF

THE BEST TRADE

SEND
COPY
NOW

MAKE
A
STIR

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Bonemeal

Use plenty of bonemeal in the soil at planting time, especially the coarser grades, as now is the time that we can get it right where the roots will be able to find it and use it. The bone can be added to the soil before it is wheeled in or it can be spread on the benches after they are filled and just before planting. The latter method insures an even distribution, which is very important in growing roses, for if the fertilizers and manures are not applied evenly the plants will not grow evenly and will be much more difficult to handle. There will also be many plants that will not produce all the roses that they should. After applying the bonemeal to the benches it will be necessary to go over them to work it in, unless old plants are to be planted. If this is to be done the bone will get into the soil while planting for it is necessary to make large holes to accommodate the long roots on the old plants.

Care of the Boilers

With the hot weather now here it will not be necessary to fire any more, leaving the boilers idle. These should not be allowed to stand this way for any length of time as they will soon rust, more so this summer owing to the continual wet weather. Clean out all ashes, soot, etc., and spray the boilers on the inside with crude oil. Other oils are equally effective but as they are much more expensive it is not advisable to use them. It will not hurt if the grates are sprayed over too, which will add a little to their life. All broken or weak parts should be noted and repairs sent for at once so that they will be sure to be on hand when the fires may have to be started again. It will be best to take the smoke pipe between boiler and the chimney down, too, and clean this out well, for if it is left on the boilers full of old soot it will rust very rapidly and will soon have to be replaced.

Disbudding

Proper attention will have to be paid to see that all little buds are removed on time so that they will not be taking vitality from the plant and at the same time delaying its development. The first buds on old plants that have been pruned and replanted and those that were merely cut back will all have to be taken off and this should be done as soon as the buds are visible, which will be as soon as they are about the size of a grain of wheat. Take them out with one leaf at least to insure a stronger break.

Drainage in Late Planted Benches

Houses that are planted from now on must have good drainage, for if the wet weather should continue, trouble is likely to be experienced later if the drainage between the boards is not sufficient. During the hot dry summers we used to have, there was no such trouble, as the plants dried out just the same. It may be necessary to take up some of the boards and chop off a little along

one edge, but it should be done, and under no circumstances should two boards come together without at least a quarter of an inch space between them.

Manure for Fall Mulching

It will be necessary to get quite a little manure in, to get it ready for the fall mulches. If the weather keeps up it will have to be used sparingly and it must be well decayed. To get it into this shape it will be necessary to start now and keep turning it over every two weeks or oftener if necessary. It will be better if it contains a little short straw as it will be more porous and easier to handle. It should not contain any long coarse straw or weeds used for bedding.

Number of Shoots to a Plant

Mr. Arthur C. Ruzicka,

Dear Sir: Will you kindly advise me, what in your opinion is the best number of strong bottom shoots to keep on each Beauty plant when the Beauties are breaking freely from the bottom and each plant has put out about six strong shoots together with a few weak ones?

Thanking you in advance for your kind assistance, I am,

Very truly yours,

L. A. R.

New Brunswick, N. J.

Circumstances alter cases, and before deciding your question it will be well to note several points, to insure the plants against harm. If the plants are strong and healthy, they will be able to carry six shoots in addition to the mother growth, which can be removed and shipped to market as soon as it produces a bud thus giving the breaks a much better chance to grow. Then there is the soil. If this is poor, not mixed well, contains no fibre, it will be a proposition to make the plants grow. On the other hand, if the soil is of a good heavy clay sod with plenty of grass roots to make it porous and contains a third of its bulk of good cow manure, with a little muck added to it and a good sprinkling of bonemeal for good measure, it will be much easier to grow the plants on, and they will take care of much more bottom breaks than they would in the poor soil. With good soil and care in growing, I would advise you to leave all the six strong shoots, merely removing the weak ones, which should be done when the shoots are only an inch from the bottom. Most of these bottom breaks will bud as soon as they are about six inches high, making it necessary to go around quite often and dishud all of them. This work should be done as soon as the buds show so that there will be no energy going into the buds that should have gone to strengthen the plants. As soon as the shoots are up to the first wire remove any leaves that touch the soil so that there will be no danger from spot, this demanding constant attention especially this year. In tying distribute the wood over the wires so that there will be plenty of chance for air to circulate all around and through the plant.

CLUBS AND SOCIETIES

AMERICAN SWEET PEA SOCIETY.

Address of President William Gray at Bar Harbor, Me.

Fellow Members of the American Sweet Pea Society:

I am sure that the members of the American Sweet Pea Society cannot but note the steady improvement that has taken place during the past few years in the cultivation of the sweet pea, and feel proud of the fact that the society has provided through its exhibitions the incentive for such marked improvement.

It is unfortunate that in some sections the weather conditions of the past two years have dampened the enthusiasm in those localities, but it is a pleasure to note that the increased interest in other sections more favored has been sufficient to keep the exhibitions up to the standard now set.

I am of the opinion that a mistake is being made in holding our shows away from the large centers where means of communication are easy and economical, especially for the amateur. The amateur should receive more encouragement in the way of generous prizes, and the classes offered for amateurs should be kept separate from the private gardeners' classes.

Members may not be aware that it is only through the generosity of the trade that the society has been able to meet its obligations, and it is with the hope that the society may in time become self-supporting that this is being done. I understand from our secretary that many members have not kept up their interest in the society and I would suggest a weeding out of such members from the list, and that a campaign be started to place the society on a self-supporting basis.

The schedules of our shows should be placed in the hands of the members and intending exhibitors early in the year, so that intending exhibitors may decide the classes to grow for, and the seed firms offering prizes may receive some benefit. With such a popular flower as the Sweet Pea it should be possible to awaken enough interest to have a successful society as well as successful exhibitions. I believe there is a future for such a society, and while I greatly appreciate the honor with which you have favored me, I also wish to assure you of my continued interest in the society.

GLADIOLUS SOCIETY OF OHIO.

The fourth annual exhibition and flower show of The Gladiolus Society of Ohio will be held in the Assembly rooms of The Hollenden Hotel, Cleveland, on Friday and Saturday, Aug. 18-19, 1916. Copies of the premium list will be furnished members and all intending exhibitors on request. All who expect to exhibit will please notify the chairman of the executive committee, R. E. Huntington, Plainesville, O., stating the number of vases or amount of space desired.

WILBUR A. CHRISTY, Sec. and Treas.

COMING EXHIBITIONS.

August 15-18, Houston, Texas. Trade Exhibition in connection with S. A. F. Convention.

August 24-25.—Lewiston, (Me.) Annual Flower Show, Gardeners' Union, Lewiston City Hall.

August 3, Oyster Bay, L. I., N. Y.—Dahlia Show, Oyster Bay Horticultural Society.

August 11-12-13, Boston.—American Gladiolus Society, Horticultural Hall.

August 24, Worcester, Mass.—Gladiolus Exhibition.

Sept. 2-9, Cleveland, Ohio.—Industrial Exhibition and Fair.

Syracuse, N. Y., Sept. 11-16.—New York State Fair.

Sept. 12-13, Providence, R. I.—Rhode Island Horticultural Society, Narragansett Hotel.

Sept. 11-16, Syracuse, N. Y.—Seventy-Sixth Annual New York State Fair.



GEORGE W. KERR.
President elect American Sweet Pea Society.

AMERICAN GLADIOLUS SOCIETY.

The schedule of the seventh annual exhibition of the American Gladiolus Society to be held under the auspices of the Massachusetts Horticultural Society at Horticultural Hall, Boston, Mass., on August 11, 12 and 13, 1916, has been received. Twenty-seven classes are liberally provided for by the Massachusetts Horticultural Society and President C. F. Fairbanks puts up \$25 for 1st and \$10 for 2nd premium for best seedling gladiolus, one spike. Fifty-nine classes more are mostly devoted to special prizes by various firms, societies and individuals. A big show is predicted.

The schedule of prizes is now ready and may be had free from the Secretary. Those wishing to make trade exhibits should advise the undersigned how much space they require, limited to 150 square feet, for which there is no charge.

Correction—in class '87—the offer of the medal should read Garden Magazine Achievement Medal, not Garden City Magazine, as printed.

H. YOWELL, Sec'y.

538 Cedar St., Syracuse, N. Y.

R. R. RATES TO HOUSTON.

Michael Barker, Chairman Transportation Committee, Chicago Florists' Club, advises us that the rate from Chicago to Houston and return is \$46.25 instead of \$46.65, as previously announced. Also that the round-trip rate from Memphis to Houston and return is \$28.25.

New York to Houston by Water.

The prospects for a large party to attend the S. A. F. and O. H. Convention at Houston, Texas, from August 15 to 18, are becoming brighter each day. The opportunity for a delightful sail of five days down the Atlantic coast on a strong, comfortable steamer appeals to many, particularly as it is the first time it has been possible to travel to an S. A. F. Convention via the ocean.

The New York Florists' Club delegation will leave New York on Wednesday, August 9, at 12 noon on the S. S. Momus, due in New Orleans on Monday, August 14. If the party stays for the day, they will be guests of the New Orleans florists. The run by train thence to Houston is but eleven hours.

The rate is \$80 to \$83, according to return route selected, this sum including berth and meals on the boat. Reservations must be made before August 1, as with the heavy travel on the boats it will be impossible to hold the state-rooms beyond that date.

Already a dozen or more have signified their intention of going. Make up your mind now to visit the Convention, and if you go from New York get the benefit of this healthful trip.

Information will be cheerfully given and steamer reservations made by

J. R. LEWIS,

Sec'y Transportation Committee.
438 West 37th Street, New York City.

MARYLAND STATE HORTICULTURAL SOCIETY.

The Summer Meeting of the Md. State Horticultural Society will be held at Hancock, Md., Aug. 29-30.

This will afford a splendid opportunity for the members from all parts of the State to see the great progress and development of the fruit industry of that section of Washington County. Within a radius of a few miles around Hancock there are growing about 300,000 fruit trees, both peach and apple, the majority of which are bearing. The principal object of the summer meetings is to permit the members to not only acquaint themselves with the great development of the industry in various parts of Maryland, but to also study methods practiced by the growers in the culture of trees and handling of the fruit.

The members of the Society, and all others interested in the industry, are invited to assemble in Hancock on the evening of August 29th. A meeting will be held in the Town Hall, which will be addressed by prominent speakers. On Wednesday, August 30th, 9 A. M., the visitors will be conducted through the orchards of the vicinity in automobiles, as guests of the citizens and fruit growers of Hancock.

Dinner will be served at 1 P. M.,

and this will be followed by a general meeting, extending from 2 to 4 P. M. It is hoped to have a demonstration of packing apples and explanation of the new Maryland Apple Grading and Packing Law that went into effect July 1st, 1916.

A most helpful and pleasant outing is promised all who attend. The Committee of citizens and growers of Hancock extend a cordial invitation to all. Hancock will celebrate its Home-Coming Week during that time, and great preparations are being made to accommodate the visitors. Hancock is located upon the old National Pike,—is near Berkeley Springs; the Potomac River and Canal pass by the town. Four garages will be available for accommodation of machines. Complete program will be issued shortly.

For further information regarding the meeting, write—

Secretary, T. B. SYMONS,
College Park, Md.

Special arrangements are in progress for the annual meeting and exhibition of the Horticultural Society, which will be held in the Fifth Regiment Armory, Baltimore, "MARYLAND WEEK," November 14-18, 1916.

REPORT OF THE SWEET PEA TRIAL GROUNDS.

By Prof. A. C. Deal, to the American Sweet Pea Society at Bar Harbor, Me.

When the American Sweet Pea Society was organized, the winter-flowering sweet peas had already been considerably developed, but the culture of them had not become very general. The marvelous display of Winter-flowering Sweet Peas at the National Flower Show held in Boston was a revelation to large numbers of florists. Today, as a result of this end of the work of the Society, the Winter-flowering Sweet Peas have taken their place among the leading cut flower crops grown under glass.

Value of the Crop.

If the actual returns were known, it is quite probable that the value of this flower would rank after roses and carnation. Not only is the value of the crop very large, but the investment in greenhouses, specially constructed for growing this crop, represents a very large sum and is annually increasing. The recital of these facts will indicate the firm conviction of many florists that the Winter-flowering Sweet Peas have become established in the tastes of the flower-buying public. Let us hope that in turn the growers themselves will recognize their duty in supporting the Society which has done so much by means of exhibitions and otherwise to advance the interests of this flower.

Evolution.

As previously stated, many varieties were known when this Society was organized, but these are now giving way to better forms. The varieties first sent out were of the old, open form with notched standards, then came the hooded varieties, and finally the present varieties of waved form. Again the first varieties were white, pink and white, and maroon with bluish wings; but today we have practically all best colors found in the garden type. No doubt if the amateurs were as much interested in this type we should see every color known in the garden type. In the short space of twenty years, the varieties of Winter-flowering Sweet Peas have passed through all the

stages of evolution shown in the garden varieties during two hundred years. Even the Winter-flowering Cupid is not a figment of the imagination, but a possibility provided it had any value at the present time.

The new waved varieties for Winter-flowering are making a decided impression, and we think (after seeing Yarrowa) that there may be some further revelations among the new Australian varieties now being offered.

Tests Under Glass.

Last winter we resumed our tests with the varieties of this type and grew about seventy varieties. These represented some unnamed seedlings, new introductions and the best of the older varieties. Although seeds were not received until October and the seed sown in pots, the results were such as may be expected by persons who use Sweet Peas to follow Chrysanthemums. The greenhouse used was well adapted for the tests as it was thoroughly modern, forty feet wide, with high walls and without benches. Eleven unnamed seedlings from A. C. Zvolanek were a source of considerable interest. Some have since been named.

Some Promising Novelties.

Among them Britannia, a large waved flower with carmine standards and Tyrian rose wings, was the best variety we have ever seen in this type. Heretofore, red varieties have been distinctly inferior to those of other colors, and this variety represents, therefore, a decided advance in this color.

Mrs. Charles Zvolanek. A large waved lavender flower. Ridgeway calls the color pale rose purple, changing to a light mauvette. This variety was one of the first to bloom and was quite productive.

No. 110 Light Pink. This was a beautiful soft rose-pink. The flower was large and waved. The color should be a pleasing one to the flower buyers. Unfortunately the plants this year were not perfectly healthy, and some flowers with side notches were seen. We hope to test this again for we were pleased with its fine color. It is worthy of trial.

Servian Prince. A large flower with magenta standard and Rood's violet wings. It is a very conspicuous flower when seen in the greenhouse in Mid-winter. As it blooms among the first, it is soon covered with many spikes of flowers.

Miss F. Roland. A large flower with Venetian-pink standards and rose-pink wings.

Orange Orchid. A large waved variety of a vivid geranium pink color, and is one of the most striking varieties that has been sent out. This variety was a center of interest wherever shown, and probably will rank after Christmas Pink and Christmas Pink Orchid as the finest of Zvolanek's varieties.

Some of the other unnamed seedlings are very promising, and when some are fixed will doubtless be heard from.

Yarrowa continues a giant-flowered variety.

It seems difficult to trace the origin and history of some of the varieties recently introduced. We shall have to ask for further time to investigate these. We hope to continue the trials again this winter and think that sufficient material will be ready to war-

rant a new and revised bulletin on Winter-flowering Sweet Peas.

Out-Door Trials.

The outdoor trials were very largely reduced in extent this year as we have few samples from the dealers. This proved to be a blessing in disguise since our appropriations and financial balances were so heavily cut this year. We have had to reduce our labor on the trial ground over one-half and consequently we are not seeking to extend our trials this year. No doubt the next administration will favor more liberal maintenance appropriations, for the cuts were not made because of any dissatisfaction, but were the result of an attempt to place all allowances under a budget system. The legislature and the people of New York may be depended upon to remedy this matter when they understand it, consequently we are looking forward to next year when we hope to resume all lines with renewed energy. The interest of the people in flowers is growing at a remarkable rate. This summer we have 150 students registered in floricultural courses at Cornell. Two-thirds of these are regular college students, and the remainder are Summer school students. This is the largest summer registration we have ever had, and if the Department of Floriculture is to provide adequate instruction and continue to grow and expand, it will need the support not only of the florists but of the flower-loving public. The experimental work should develop simultaneously so that we may increase our knowledge of plants.

This year our garden varieties of Sweet Peas will come into bloom about July 25th, with but few flowers before August 1st, and consequently no report can be made at this time. Notes will be made as usual so that we shall have a record of these varieties for publication later.

In closing, permit me to say that the latchstring is always out, and we shall be pleased to see any of the members whenever they visit Ithaca. Whether you need our help or not we will be glad to have your kindly criticism and helpful advice. We wish to thank all those who have assisted us in our work and hope they may feel justified in continuing their support in the future.

A HOLLYHOCK IN A CITY BACK-YARD.

Sing of the red rose as we will—
And we know she is queen of the garden still—
And dwell on the lily's splendid grace,
And the charm of the pansy's winsome face;
And the witching scent of the mignonette,
And the sweet pea's dainty blossom, yet
There is none of them all that will dare to mock
The dear, old fashioned hollyhock.
Tuck it away if you will back there
At the garden's end, it will climb to where,
In its regal beauty, glad and tall,
It greets us over the hedge or wall,
Like a dear old friend from the long ago,
From a dear old garden we used to know:
The fairest garden in all the land,
Because SHE kept it with loving hand,
Little you know how much of care,
Brave old hollyhock, standing there,
You gain from the hearts of the passing
Through!
Brief, but memory, long,
Goes on and on, shall still survive,
Through the bees in the great stone hive,
Through the years and age, in the thoughts of
The garden,
Your beauty shall bloom again.

—Boston Trierler.

THE NEW PEONY SOCIETY

Editor HORTICULTURE:

Replying to Mr. Fewkes in your last, permit me to say, that I am very well acquainted both with the east and west. I lived some years in Boston and in Chicago and have seen the mighty empire of the west grow up from babyhood. I have spent years on our bleak frontiers in Nebraska and Minnesota. In '57 I commenced preaching in the latter state, and had a tract of country 100 miles in extent where I was the only minister or surgeon. I worked with the people and suffered with them. I have known families to live for weeks on corn meal and salt, and others live a long time on fish alone. I was once reduced to potatoes and tallow, and didn't know the history of the tallow, and didn't want to know. I have been nearly drowned—nearly frozen—traveling when the mercury was 40 below. I have had the great timber wolves howl along my track at night almost broken hearted because they couldn't have young preacher raw and warm for supper. So I love the west and am a part of it. Living for years on the storm swept prairies, I became much impressed with the need of home adornment and so of late years when my church nerves gave out—after building sixteen churches and paying for them, I have been preaching the "Gospel of Beauty," which is next to the gospel of grace. My attention was turned to the peony as the cheapest and most satisfactory flower, and so I pushed it, issuing three editions of the peony manual and writing it up in papers having over a million circulation. I was charter member of the national Peony Society and appreciate the kindness shown me. I also appreciate the patient labors of those who have taken the kinks out of the tangle of the names.

The fact stands out the east does not understand the west, or appreciate their need. We found that in Minnesota they were raising the finest peonies on earth, and there was an enthusiasm there which was manifest nowhere else. We made strenuous efforts for the Society to meet at the Twin Cities. One year we arranged for a meeting with the Horticulture Society where we could stage the finest flowers in the land. Plans were also laid to awaken the interest of the great northwest—the Dakotas and Manitoba. Then we gave the most cordial invitation for the National Society to meet with us. Our request was as promptly turned down as though it was the cry of a child for the moon. Other efforts were made and we concluded that it would take about 100 years to get the Society to come to the Twin Cities. Other floral societies could meet there. They could even cross the continent. The parks of the Twin Cities are equal to any and there are some of the ablest florists of the land, but no, the Peony Society could not go where they were most needed. Some of us have done our best to awaken an interest among the

people. The pioneer days are past. The time for the home beautiful has arrived. I am an old man of 83 and I am impelled to do what I can and leave this a more beautiful world. There was no use in waiting, we were ignored. The most promising field was neglected. We thoroughly canvassed the matter—whether to organize an auxiliary society, or go alone. Should we organize as an affiliated society we might be outvoted by those who hug the Atlantic coast. The organization is yet somewhat tentative. If it is best for us to come under the wing of the National Society all right but it must be a *national society* and not a local one.

York, Nebr. C. S. HARRISON.

My dear Mr. Editor:

I have noted the editorial in your issue of July 8th entitled "As Between Societies." You of course know that I have always favored the banding together of local interests into an Association, whenever such an association might tend to advance the business interests of its members. I can see no objection to the organization of the new Peony Association of the Northwest. There is no moral, legal or business reason why these gentlemen should not form an association for the purpose of bringing themselves together, get better acquainted with each other and promote the interests of the peony throughout their section as much as they possibly can.

I am not at all in sympathy with a certain spirit that seeks to relegate the progress and advancement in floricultural and horticultural matters exclusively to the care of national organizations. There is no reason why a half dozen peony growers, either at York Nebraska, or somewhere else in the United States should not combine together and form any sort of an association that is not antagonistic to the laws of our country. Neither is there any reason why such an association should not co-operate with a National Association covering the same subject. There is no reason why such national

association should have any antipathy or should seek to curb or in any way control any such local organizations.

The United States is a very large country. It is several thousand miles from the Northwest to the Atlantic Coast, where the American Peony Society usually holds its annual meetings. It is a very expensive journey and it is practically impossible for northwestern growers to bring any peony flowers to any of the national shows held in the East and exhibit them in creditable conditions. Consequently, in organizing the Northwestern Peony Association, those gentlemen interested in the promotion and culture of the peony in that section are doing just what average business men of good sense ought to do in every section of the country that is far removed from the centers usually patronized by the national associations.

At the time of the organization of the American Peony Society considerable opposition developed among a certain section of the members of the Society of American Florists and a peony committee was organized within the ranks of the Society of American Florists, the principal object of which was to nullify the efforts of the peony growers themselves to organize into an independent national society.

The sooner the opposition to the organization of societies throughout the United States which are designed to promote and advance the interest of floriculture and horticulture ceases, the better it will be for the entire fraternity. With a country 3,000 miles in breadth and two-thirds as long, north and south, with a population already reaching 100,000,000 and in the not far distant future destined to rise to the enormous number of 200,000,000, there is no reason why there should not be many local organizations, regardless of whether they become closely affiliated with national organizations or not.

The only thing that horticulturists and floriculturists of the United States should seek to avoid is anything that will hinder the progress or stand in the way of advancement in these lines, whether that progress goes forward along certain lines and according to the rules that a few individuals would like to prescribe or not. The fact that progress is being made ought to be sufficient.

Yours sincerely,
Eureka, Cal. CHAS. W. WARD.



FANCY BEDDING IN CONVENTION GARDEN, HOUSTON, TEXAS.

HOLLAND GROWN BULBS

HYACINTHS, TULIPS, NARCISSUS, ROSE BUSHES, ETC.

Write for information about the *Mammoth Auction Sales* that we will hold during the coming Fall Season, of Holland's latest and choicest varieties

THE MacNIFF HORTICULTURAL COMPANY

52, 54 and 56 Vesey Street The Largest Horticultural Auction Rooms in the World NEW YORK CITY

BOSTON FERN SPORELINGS.

Has any one ever grown plants from spores of the Boston fern or any of its varieties?

Two reports have come to the writer of the development of spore-grown plants from *Nephrolepis bostoniensis*. The reports come from widely separated localities and growers, but agree more or less as to details. Unfortunately the results were obtained years ago, and none of the plants so produced are now alive.

The writer is interested in getting information as to any authentic cases of the Boston fern being grown from spores, and will especially welcome an opportunity to see living plants so produced. *N. Wittboldi* was supposed to be a spore sport from *bostoniensis* but the character of all the plants which I have obtained under the name of *Wittboldi* seem to indicate that it is a form of some Malayan species. *N. philadelphensis*, a chance sporeling at Horticultural Hall, Fairmount Park, Philadelphia, seems to be the same as *N. washingtoniensis*, itself, I believe, a chance sporeling, and both are undoubtedly to be identified with another Malayan species, sometimes called *N. floccigera*. These are all broad-leaved forms, very different from *bostoniensis* or *exaltata*. *N. Elmsfordi*, reported as a sporeling from *Whitmani*, stands, I believe, as the only form in the Boston fern series credited with this origin.

Information is asked therefore on the following points:

1. Is there any known instance of the development of plants from Boston fern spores?

2. From the spores of any variety of the Boston fern?

3. What were the characteristics of the plants so grown?

If living plants are now being grown, the writer would like an opportunity to call and see them if near New York, and in any event would be glad to receive small plants for which an exchange from a list of a hundred named forms is now available. It may be noted that microscopic examinations so far made have shown complete sterility of spores among Boston fern forms, but it is not impossible that they may occasionally produce fertile spores.

R. C. BENEDICT,
Brooklyn Botanical Garden.

BOUGAINVILLEA: LA FRANCE ROSES

Mr. Editor:

I have some old plants of Bougainvillea. Will you please tell me through HORTICULTURE the best way to treat them so as to have them bloom well next spring? Also, I have some La France roses that are very shy of blooming but have an excellent growth every year and a very few blooms, although of good size and quality. They have been pruned out in the garden about twelve years. I shall be

LAST CALL! Azaleas and Palms

Somergem, Belgium, June 24th
AUGUSTE HAERENS writes: Stocks are fine and plentiful. Send orders to New York Agents before August 15th, to join regular fall shipments; they will attend to all details. Mails travel slowly nowadays. If interested, address promptly.

AUGUST RÖLKER & SONS 51 Barclay Street
or P. O. Box 752 NEW YORK

TREES

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties. Sturdy, choice stock that can be depended upon. Send for catalog and special trade prices.

The Bay State Nurseries

North Abington
Mass.

SHRUBS

This New England climate produces fine, sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. DUWERKERK, 216 Jane St. Weehawken Heights
P. O. No. 1, Hoboken N. J.

In Stock ROSE STAKES

EXTRA STIFF No. 9 GALV. WIRE

4 feet—\$11.90 per 1000.

CARNATION SUPPORTS

\$18.00 per 1000 plants.

THE CARNATION SUPPORT CO., Connorsville, Ind.

very thankful for any advice you can give me on these subjects.

Yours respectfully,
C. N.

The Bougainvilleas should be pruned back and repotted now in a compost of turf and cow manure well-rotted. A little sand should be added unless the turf was cut from a sandy soil. Add also a little coarsely ground bone. Keep the plants growing along, giving a winter temperature from 45 to 50 degrees.

The La France roses have probably been enriched too much with nitrogen, or may be growing in partial shade. Transplant to a place in full sun, to which has been applied some barn yard dressing at least two years old and a sprinkling of ground bone over the surface.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
HATBORO, PA.

BOBBINK & ATKINS

Nurserymen, Florists
and Planters

RUTHERFORD, NEW JERSEY

ANGLIN & WALSH CO.

Williamsbridge, N. Y.

Send for Monthly Plant Bulletin

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY. Small, medium and large sizes supplied. Price list now ready.

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers in America.

BOX 416, DUNDEE, ILL.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

The Pea Pack.

It is some weeks since we have given any crop news, as there has really been very slight changes in crop conditions since our last item in Seed Trade Notes. Some crops have developed sufficiently to indicate what the final results will be and we are able to state at the present writing that the pea crop of 1916 will fall far below that of 1915, both for seed and canning purposes.

The pack of canned peas this year will hardly be more than 50 per cent. of that of 1915 the country over. We have been informed that the average number of cases per acre packed in 1915 was about 120. This year it is estimated that it will not exceed 70 and maybe less. In New York State the average for 1915 was close to 100 cases; 1916 will not be above 50. The two states—Wisconsin and New York—produce more than 75 per cent. of all the peas packed in this country, but smaller producing states, such as Michigan, Indiana, Ohio, Maryland and Delaware have all fallen much below their production of a year ago.

Reduced Yield of Seed Peas.

As to the seed crop nothing really definite can be said at the present writing, but indications are that early peas, such as Alaskas and the Extra Early types will not average more than two-thirds of last year's yield. The other canning varieties, such as Admiral, Advancer and Horsford will give better returns than the early sorts but will fall considerably under their yields of last year. It seems to be the general judgment of the growers that all of the large-podded varieties, both late and early, will be quite short. Instead of there being a surplus of these varieties in the hands of the growers after contracts have been filled the coming autumn and winter, it is very doubtful if growers will be able to deliver 100 per cent. In fact it is practically certain that they will not, though the extent of the shortage cannot now be estimated in figures.

Beans.

It is rather early to give any estimate of the bean crop, but in a general way it is known that it started with something of a handicap, particularly in the east where planting was at least two weeks later than usual. There are rumors that the crop in Colorado is in danger owing to shortage of water;

how serious this may prove we are not prepared to say.

We will endeavor to furnish further crop news covering California and European crops in general within the next week or two. Such information as we have is not quite up to date and we, therefore, will omit details. However, in a general way with the exception of salisfy and one or two other specialties, California crops are expected to make a fair average. European conditions are not as well known.

Onion Seed Crop Prospects in Canary Islands.

(Consul George K. Stiles, Teneriffe, June 10.)

Onion seed constituted one-fourth of all exports to the United States from the Teneriffe district in 1915. The coming crop, which should begin to move next month, shows a decided increase in the amount of choice, expensive wax (or white) seed. The ordinary canary-yellow onion seed, however, has suffered because of the winter drought, and shows a loss estimated at 40 to 50 per cent. The red seed, which is in less demand, also suffered from drought, but to a smaller degree than the yellow. Yellow seed will consequently be scarce, and there may be difficulty in filling contracts for this grade, while the stock of "wax" seed will be in excess of orders.

The average contract prices are reported as follows, per pound: Fancy white "wax," \$1.50 to \$2; yellow, 85 cents (American gold); and red, 80 cents.

The stocks of onion seed last year were fairly cleaned out, so that this season there appears to be less probability of old seed being mixed with the new. Both adulteration and inferior quality of onion seed are difficult to detect until after sowing.

As practically all onion-seed contracts to the United States are made on an f. o. b. basis in a Canary port, the higher freights of this year must be met by the American buyers. Last season a number of complaints of bad seed were caused through long delays in trans-shipment via England. Owing to this fact the Liverpool route has been largely abandoned this year, according to statements made by prominent shippers.

The larger percentage of the crop will be routed via Porto Rico to New Orleans or via Habana to New York.

The crop is slightly earlier than last year and first shipments are expected to be made by July 15 and should extend to the end of August.

Generally speaking prices may be taken as somewhat lower and showing a tendency to weakness this season.

A statement of interest to American onion-seed growers is contained in a report made by two of the larger dealers growing their own seed, to the effect that too intense a selection of onion seed for the points of size and color shows poor results in the quantity of seed obtained at the next harvest.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending July 14, were recorded as follows:

Bulbs—England, \$16; Bermuda, \$71. Plants—Italy, \$4; England, \$584; Bermuda, \$8; Guatemala, \$60; Jamaica, \$6; Venezuela, \$256; British Indies, \$63.

Red clover seed—France, \$20,125; Italy, \$95.

Clover seed—France, \$5,018.

Grass seed—France, \$103.

Other seeds—France, \$4,968; England, \$3,899; British East Indies, \$1,552; Hongkong, \$267.

Nitrate of soda—Chile, \$61,260.

Other fertilizers—England, \$334.

Notes.

Tampa, Fla.—The Allen & Reils Seed Company will open for business August 1st with a complete line of seeds and supplies.

The hop crop in Vermont is in good shape and very even throughout the state. The recent hot weather has done much for the squash and corn planters.

Doylestown, Pa.—Appraisers of the estate of the late W. Atlee Burpee, have filed an inventory in the Register of Wills office, which appraises the estate at \$1,211,990.62, including real estate valued at \$298,450. The "Fordhook Farm" property, the Burpee home here, is appraised at \$122,500.

We are pleased to learn through Curtis Nye Smith, counsel, that the Agricultural Appropriation Bill as amended and passed by the Senate, contains (p. 25) an item of \$3,000 to cooperate with horticultural organizations in the standardization of botanical names.

Of course the House will have to concur in this amendment before it becomes effective.

CATALOGUES RECEIVED.

Jackson & Perkins Company, Newark, N. Y.—Select Peony List. 8 pages, illustrated.

J. Bolgiano & Son, Baltimore, Md.—Wholesale Summer and Fall Catalogue for Market Gardeners, Truckers and Farmers.

W. E. Marshall & Co., New York.—Fall Bulbs for 1916. A neat business-like catalogue. Daffodils in dark green tone are the cover subject.

A. T. Boddington Company, Inc., New York.—Midsummer Garden Guide, containing a list of Strawberry Plants, Bulbs for Fall Planting, Seasonable Seeds and Sundries. Illustrated.

Schenectady, N. Y.—Henry A. Miller and John F. Korman, doing business under the name of the Mohawk Greenhouse Company, have begun business on Van Vranken avenue, growing plants, shrubs and flowers, both wholesale and retail.

"Seeds with a Lineage" All Varieties

Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

MICHELL'S

GIANT PRIZE PANSY SEED

NEW CROP

GIANT EXHIBITION MIXED. A Giant Strain which for size of bloom, heavy texture and varied colors and shades cannot be surpassed. Half trade pkt., 30c.; 50c. per tr. pkt.; per 1/4 oz., 75c.; \$5.00 per oz.

	Tr. Pkt.	Oz.
Giant Prize-Azure Blue....	\$.40	\$1.75
Giant Prize Black Blue....	.40	1.75
Giant Prize Emperor William, Blue .....	.40	1.75
Giant Prize Hortensia Red .....	.40	2.00
Giant Prize King of the Blacks .....	.40	1.75
Giant Prize Lord Beaconsfield, Purple Violet....	.40	1.75
Giant Prize Peacock, Blue, Claret and White .....	.40	2.50
Giant Prize Snow Queen, Pure White .....	.40	1.75
Giant Prize Striped and Mottled .....	.40	1.75
Giant Prize White with Eye .....	.40	1.75
Giant Prize Pure Yellow....	.40	1.75
Giant Prize Yellow with Eye .....	.40	1.75

Also all other reasonable seeds and supplies. Send for Wholesale Catalogue and Price List.

HENRY F. MICHELL CO.
Flower Seed Specialists
518 Market St., Philadelphia, Pa.

Thorburn's

BULBS AND SEEDS

For FLORISTS

Write for Quotations

J. M. THORBURN & CO.,
53 Barclay St., New York

THE PRACTICAL BOOK

OF

Outdoor Rose Growing

by
GEORGE C. THOMAS, JR.

Elaborately Illustrated with 96 Perfect Reproductions in Full Color of All Varieties of Roses, and a Few Half-tone Plates. Octavo, Handsome Cloth Binding, in a Slip Case. \$4.00 net. Postage Extra.

We have sold many copies of this sterling book. It is one of the best of recent horticultural publications. Every rose grower should possess a copy.

Order From

Horticulture Publishing Co.
BOSTON

TREES !!

We are prepared to do all kinds of forestry work, including the filling and sealing over of cavities, taking down and removing trees, trimming and thinning out large and small growth in woods and timber lands. We give careful attention to the shaping of young fruit trees, budding and dip-grafting. We combat all kinds of leaf-eating and sap-sucking insects by improved methods.

Safeguard your fruit trees and their foliage by spraying.

R. & J. FARQUHAR & CO.
BOSTON, MASS.

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

MIGNONETTE

IMPROVED ECLIPSE.

Superior to all others for winter blooming, exhibition, or cutting. Immense fragrant spikes 10 to 15 inches long. Green house grown seed from a re-selected strain Pkt. 25c., 1/16 oz. \$1.00. Catalogue upon application.

THOMAS J. GREY CO., Seedsmen
29 So. Market St., Boston, Mass.

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

W. E. MARSHALL & CO.

SEEDS, PLANTS AND BULBS

Horticultural Sundries

166 W. 23rd St., NEW YORK

J. BOLGIANO & SON
WHOLESALE FIELD AND GARDEN SEEDS
Established 1818
Write For Our Low Prices
LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

When writing to advertisers kindly mention HORTICULTURE.

POINSETTIAS

July and August Shipment

True type, fine 2½ inch plants, shipped in paper pots, \$6.00 per 100, \$50.00 per 1000.

A. HENDERSON & CO.

211 N. State St. CHICAGO, ILL.

My new Price List of

WINTER-ORCHID-FLOWERING SWEET PEA SEED

Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

KEYSTONE SNAPDRAGON

Best Winter flowering Pink Snapdragon on the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.

PHILADELPHIA, PA.

LILIUM GIGANTEUM

COLD STORAGE

Extra Selected Stock. Gladiolus for forcing. Nansu, Colville or large flowering type. Greenhouse Fertilizers. Ask for 1916 Seed Catalogue.

Joseph Breck & Sons Corp., Seedsmen
47-54 No. Market St., BOSTON, MASS.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

For KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for New York. Write or Phone to

MAX SCHLING

22 West 59th Street, - Adjoining Plaza Hotel

Best Florists in the States as References.

EUROPEAN ORDERS EXECUTED.
Members of the Florists' Telegraph
Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York

Telephone 1552-1553 Columbus

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

WORCESTER, MASS.

Randall's Flower Shop

HARRY L. RANDALL, Proprietor.

Member Florists' Telegraph Delivery Association

Of Interest to Retail Florists**NEW FLOWER STORES.**

Seattle, Wash.—Carl Melby, Pike street.

Austin, Tex.—Mrs. Hillyer, 1406 Lavaca street.

Warren, Pa.—Marjorie G. Phillips, The Flower Shop.

Chicago, Ill.—A. Billerbeck, succeeding Kedzie Floral Co., 3403 W. Madison street.

NEWS NOTES.

Negaunee, Mich.—Frederick Nielsen of Chicago has sold the Negaunee greenhouses.

Baltimore, Md.—J. E. Bartell has sold one section of his greenhouses on York road to John Simon.

Asbury Park, N. J.—Max H. Kruschka has purchased the Frederick Height farm and will use same as a nursery.

Worcester, Mass.—A. H. Lange has presented over 1,000 plants to the children for planting in their little "garden cities."

Fishkill, N. Y.—A recent issue of the Fishkill Standard contains a pretty three-column story entitled "The Spirit of Love," by Anna W. Young, of the Spy Hill Conservatories. The little narrative is said to have been inspired by the gift of an orchid blossom by a New York wholesaler to Miss Young on the occasion of a visit to his store.

WHY

Jinn The Florist ?
4 Park St., Boston, Mass.

**Because Satisfaction
Is Guaranteed**

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor.

FLOWERS BY TELEGRAPH

SAN FRANCISCO

CALIFORNIA

Pelicano, Rossi & Co.

123 KEARNY ST.

HIGH GRADE PLANTS

For Retail Stores a Specialty

ASK FOR LIST;

THOMAS ROLAND, Nahant, Mass.

**JOHN BREITMEYER'S
SONS**

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

**IN THE
National Capital**

At your service to deliver Flowers or Designs on Order by Telegraph or otherwise. Prompt Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2789
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"

The largest out flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEWPORT, R. I.

145 Bellevue Avenue.

WE GUARANTEE SATISFACTION
MEMBER F. T. D. A.

CHICAGOSend Your Orders to
WILLIAM J.**SMYTH**Member Florists' Telegraph
Delivery Association**Michigan Ave. at 31st Street**Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1836 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

SALTER BROS.
FLORISTS
38 Main Street, West
ROCHESTER, - N.Y.

HESS & SWOBODA
FLORISTS
Telephones 1591 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE125,000 Sq. Ft. of Glass
WORCESTER, MASS.**Flowers by Telegraph**

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State
St.Albany, N. Y.—The Rosery, 23 Steuben
St.Albany, N. Y.—William C. Gloeckner, 97
State St.Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont
St.Boston—Zinn the Florist, 4 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main
St.Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.Cleveland, O.—J. M. Gasser Co., Euclid
Ave.Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.Cleveland, O.—Knoble Bros., 1836 W. 25th
St.Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.Denver, Col.—Park Floral Co., 1643
Broadway.Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.New London, Conn.—Reuter's.
Newport, R. I.—A. T. Bunyard, 145 Belle-
vue Ave.New York—J. H. Small & Sons, 505 Madi-
son Ave., at 52d St.New York—David Clarke's Sons, 2139-
2141 Broadway.New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St.
and Madison Ave.New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth
Ave.New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.Rochester, N. Y.—Salter Bros., 38 Main
St., West.San Francisco—Pellicano, Rossi & Co., 123
Kearny St.St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.Washington, D. C.—Gude Bros., 1214 F
St.Washington, D. C.—F. H. Kramer, 915
F St., N. W.Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.Westerly, R. I.—Reuter's.
Worcester, Mass.—H. F. A. Lange.Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.*Penn The Florist***"The Telegraph Florist"**

Member of Florists' Telegraph Delivery

124 Tremont St., BOSTON**REUTER'S** Members Florists'
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.We cover the territory between
New Haven and Providence**ST. LOUIS, MO.****FRED C. WEBER****4326-28 Olive St.**Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only**THE J. M. GASSER COMPANY,****CLEVELAND**

Euclid Avenue

The Far-Famed Flowers of

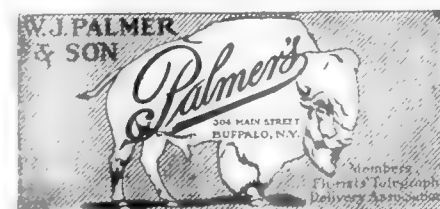
TORONTODelivered on mail or telegraph order for
any occasion, in any part of the Dominion.**JOHN H. DUNLOP**

8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER**106 STATE STREET, ALBANY, N. Y.**

J. H. SMALL & SONS

FLORISTS NEW YORK and WASHINGTON

Announce the removal of their New York store to

505 MADISON AVENUE, AT 52d STREET

WASHINGTON, D. C.
15th and H Streets

Floral and Landscape Work

NEW YORK—Waldorf-Astoria
and 505 Madison Ave.

NEWS ITEMS FROM EVERYWHERE

PITTSBURGH.

Henry Ludwig and Edward J. Baumbach are visiting at Dunkirk, New York.

Samuel Cape, of Lawrenceville, florist, is one of a party of friends at Atlantic City.

L. F. Post, of the I. W. Scott Seed Co., and Mrs. Post have returned from a trip to Duluth.

Nicholas Cassaluccia, landscape gardener for the Penn. R. R., is spending several weeks in Michigan.

Accompanied by his family Foreman James Moore of West Park will leave August 1st for a lake trip to Toronto.

George B. Telfair, a member of the seed firm of Scobie & Parker, is spending a month in the mountains of North Carolina.

Miss May Brush, a saleswoman for The Flower Shop, Sewickley, is spending a vacation at Ligonier in the Allegheny Mountains.

Russell H. Boggs, a wealthy merchant, who has a fine greenhouse on his Sewickley Heights estate, is disposing of his surplus flowers to some of the retail trade.

Accompanied by his family Anthony Smith, Jr., left last Saturday for a motoring trip to Atlantic City. Joseph Koenig, a decorator for the A. W. Smith Co., with his family left on Monday for a sojourn in the Maryland mountains.

Karl Doelker, salesman and designer for Ray J. Daschbach, Inc., will leave on Monday next for a sojourn in the country near Mount Leon. Frank Kilgallen, of the same firm, left on last Saturday for a trip including points of interest in Ohio.

Albert Vick has just returned from Rochester, N. Y., where his father, Frederick Vick, has been seriously ill for some time. Jacob Gerwig, another employee of Pittsburgh Cut Flower Co., left last Monday to join his family at Conneaut Lake.

It is to be regretted that throughout the Summer Playground season which closed yesterday, there were not sufficient flowers to meet the demand of any of the Friday Flower Days. It was necessary to send some little ones

away each week without the longed for and expected "bunch of flowers," although the majority of the wealthy owners of gardens and greenhouses contributed generously and the wholesale trade did all possible within their scope to relieve the situation.

CHICAGO.

Miss Mabel Schulz of J. A. Budlong's is vacationing at Cedar Lake, Ind.

Frank Hazer of Geo. Reinberg's store force, was recalled from a vacation trip by the sudden death of his father.

A card from Henry Arnold, with O. A. and L. A. Tonner, says his vacation at Eagle Lake, Wis., is all right, but that mosquitoes are biting much better than fish.

Stephen Keller of George Keller & Sons, Chicago, flower pot manufacturers, who was injured some time ago by being caught in the machinery, is doing nicely. He expects to be able to leave the hospital soon.

H. Rollo Mueller of Sedgewick, Kansas, a nephew of Chas. P. Mueller, Wichita, Kan., is now in the employ of Frank Oechslein learning the practical side of plant growing after being graduated last June from the Floricultural department of the University of Illinois.

John Meier, carnation specialist at Tessville, Ill., a member of the Chicago Flower Growers' Association, is trying the experiment of working his men from 4 till 9 A. M. and from 4 till 8 P. M., suspending work during the heat of the day. Mr. Meier says they are now filling the houses with new soil and this schedule of time is not only satisfactory to the men but by it he gets more accomplished than under the old way.

Of all the summer flowers, O. A. Tonner considers the gladiolus one of the most satisfactory. The off-color varieties have now been eliminated from the market by the fact that they would not sell and better, new varieties have taken their places. The retailer has learned to show the gladiolus in a more attractive way than heretofore, and in the tall basket with the accompaniment of gypsophila the spikes have a stately grace not excelled among summer flowers.

PHILADELPHIA.

Daniel Donoghue and party of six were visitors at Commodore Westcott's bungalow on Barnegat Bay, July 17th to 20th. On the 21st W. F. Gude and party of twelve distinguished men of affairs from Washington, D. C., arrived on the scene, for a few days' enjoyment far from the maddening crowd.

Horace Cheeseman, well known to the trade all over the country, after having been on the invalid list for three years has happily recovered his health after a sojourn in Florida and later in the Adirondacks, and is now connected with Ralph M. Ward & Co., New York City. We are all glad to see his smiling face again and hope he may long be spared to spread the shining light amid the encircling gloom.

N. B.—You can always find gloom somewhere no matter how bright the god of day beams on the universe.

Abram L. Pennock, the veteran retired florist of Lansdowne, Pa. (and Jupiter, Fla.), thinks that everybody ought to have a hobby. No matter what it is—be it horses, horticulture or hens. When one has slaved his allotted span in business and acquired a competence he retires, of course. But if he has no hobby—he rusts out in no time, is a most miserable creature and doesn't know what to do with himself. That's where the hobby comes in. Take Admiral Ward for instance. His hobby is roses. And isn't he the joy and inspiration for all lovers of the queen of flowers—as well as holy poem to himself!

NEW YORK.

Winfried Rolker, whose respect for anniversaries is well-known to his friends, observed on Saturday, July 22, the fiftieth anniversary of his sailing from Antwerp to begin his business career in New York after having completed his education in Europe. On Saturday, July 29, another important event, Mr. Rolker's birthday anniversary, will have a fitting celebration. May there be many happy returns.

Charles Millang and Charles C. Johnson have formed a corporation under the title of Johnson & Millang, Inc., with Mr. Johnson as secretary

BASKETS BASKETS BASKETS

BUY YOUR FALL SUPPLIES NOW

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Don't Miss This Chance

Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

1129 Arch Street, PHILADELPHIA, PA.

and treasurer, and will open a wholesale plant and bulb salesroom on the basement floor of the Coogan building, corner W. 26th street and Sixth avenue. Auction sales will be held every Tuesday and Friday, beginning with September 12 when decorative stock and bulbs will be offered, and continuing until after the holidays. There is a large contingent of trade buyers uptown to whom this new enterprise should prove a great convenience. The store will have an area of about 10,000 square feet.

WASHINGTON.

William J. Galt, formerly employed by Becker, in Philadelphia, is now with George C. Shaffer. George C. Dalgleish, of the same store, is away on a week's vacation.

Albert Schnell, manager for the Leo Niessen Company, has returned from a short visit to Atlantic City. He made the trip accompanied by Mrs. Schnell in their automobile.

Lilium regale, a new offering in this market, is meeting with considerable popularity and has been in very good demand since its arrival. This new lily, an outdoor one, seems to be supplanting longiflorum lilies for funeral work at this time, whether because of its novelty or general usefulness has not yet been generally determined, but it looks very good. The stock is being marketed here through the S. S. Pennock-Meehan Company.

The prosperity wave seems to have hit the store of William Marche for extensive improvements are there being undertaken in addition to the erection on his property in Hyattsville, Md., of one greenhouse 35x125 feet and another house the same depth and 12 feet wide. The store, at 14th and H streets, is quite small. An expenditure of some \$2,000, however, is to procure the erection of a new front which will extend beyond the present front about three feet and be 20 feet in length.

Dallas, Tex.—A reception was extended to Secretary John Young, of the S. A. F., by the florists of Dallas and other localities in Texas, on Monday evening, July 17, at the Oriental Hotel.

CINCINNATI.

A. J. Gear left on Tuesday on a six weeks' trip to Idaho and Spokane, Wash.

Mr. and Mrs. Gus Adrian, Jr., have returned from their honeymoon spent at the Cheneaux.

Frank Ball, formerly of this city, is now with Lester F. Benson, of Indianapolis, Ind.

Mr. and Mrs. J. T. Conger, of Hartwell, this city, have returned after two weeks spent at Wichita, Kansas and Chicago.

CLUB AND SOCIETY NOTES.

At the annual sweet pea show in Worcester, Mass., last week, the baskets, table centerpieces and vases arranged for effect added greatly to the charm of the exhibition. These were done principally by ladies. Japan irises from Allen J. Jenkins were very fine.

The fourth annual summer convention of the Illinois State Horticultural Society will be held at The Orchards of A. L. McClay, near Roodhouse, Tuesday, August 1, 1916. Orchard management seems to be the only horticultural topic in which this society is interested.

The annual exhibition of flowers, fruits and vegetables under the auspices of the Andover Gardeners' Club, the Andover Village Improvement Society and the Andover Guild, will be held in the town hall, Andover, Mass., on Sept. 8 and 9. Numerous prizes are offered for asters, dahlias, perennial garden flowers, etc.

At the annual meeting of the Newport Garden Club, held at the residence of Mrs. J. J. Wysong on Ochre point, the following officers and governing board were re-elected:

President Mrs. Charles F. Hoffman.
Vice-President Mrs. Thomas J. Emery.

Secretary-Treasurer — Mrs. Frederick Pearson.

Members of the Board Mrs. George Lothrop Bradley, Mrs. Elisha Dyer, Jr., Mrs. Thomas J. Emery, Mrs. G. Richmond Fearing, Jr., Mrs. William Grosvenor, Mrs. Lawrence L. Gillespie, Mrs. Charles F. Hoffman, Mrs. Pembroke Jones, Mrs. Fred

erick Pearson, Mrs. Hamilton Rice, Mrs. William G. Weld, Mrs. J. J. Wysong.

The offer of the Hilltop Inn grounds for the annual mid-summer flower show, to be held with the Newport Horticultural Society, August 17-19, was accepted. This promises to be the best flower show in size and importance of exhibits ever held in Newport.

Last Saturday evening about thirty members of the Violet Growers Mutual Association, Rhinebeck, N. Y., assembled at the Town Hall for their annual meeting. President Charles R. Traver presided and after routine business the election of officers was held. All the directors were re-elected with the exception of A. C. Toof, whose place was taken by Fred Moore of Red Hook. All the officers including F. L. Asher, secretary and treasurer, and Charles R. Traver, president, were re-elected. Mr. Asher reported seventy-seven members for last year which is less than usual. Originally there were nearly twice that number of growers but many have discontinued their efforts and are now engaged in other lines of business. An interesting fact was brought out that the Association last season paid over \$10,000.00 for coal which means about 2,000 tons. A discussion on publicity for "Rhinebeck Violets" was brought about by the remarks of Fred Moore who favored a picnic and Nelson Coon who favored advertising in the trade papers.

NEW CORPORATIONS.

Hartford, Ct.—Rose Hill Floral Co., capital stock, \$50,000. Incorporators, Louis L. Barton, A. P. Pitner and Ralph M. Grant.

York, Pa.—Anderson Bros. Co., seedsmen, capital stock \$40,000. Incorporators, James, James T. and Wm. J. Anderson.

Asheville, N. C.—Stricker Seed Co., 22 West College street, capital stock, \$30,000. Incorporators, M. F. Hoffman, Mrs. Annie D. Martin, Stephen and J. G. Adams, J. G. Merriman and L. R. Stricker.

Now Is The Time To Put
In Next Season's Supply of
SPHAGNUM MOSS

Six 5 Bbl. Bales for \$10.00

This is the biggest value in Moss you can buy. Our
Moss is clean and fresh and each
bale is wrapped.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S
Wholesale & Commission Florists
FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

EDWARD REID
WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER
122 West 25th St., New York
Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E.G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER
EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE

Plantsmen and Florists

37 and 39 West 28th St., NEW YORK



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut
Flower Market

Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

226 DEVONSHIRE ST.,
Telephone, Main 6267-6268

BOSTON, MASS.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100
TO DEALERS ONLY

	BOSTON July 27		ST. LOUIS July 24		PHILA. July 24	
Roses						
Am. Beauty, Special	20.00	to 25.00	15.00	to 25.00	15.00	to 25.00
" " Fancy and Extra	10.00	to 15.00	8.00	to 10.00	10.00	to 15.00
" " No. 1	1.00	to 6.00	1.00	to 5.00	5.00	to 10.00
Russell, Hadley	2.00	to 10.00	5.00	to 10.00	4.00	to 10.00
Killarney, Richmond, Hillingdon, Ward, Extra	2.00	to 4.00	5.00	to 8.00	3.00	to 6.00
" " Ordinary	.50	to 2.00	3.00	to 4.00	2.00	to 3.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 6.00	.....	to	2.00	to 4.00
" " Ordinary	.50	to 2.00	.....	to	1.00	to 2.00
Ophelia, Mock, Sunburst, Extra	3.00	to 5.00	5.00	to 8.00	2.00	to 6.00
" " Ordinary	1.00	to 2.00	2.00	to 3.00	1.00	to 2.00
Carnations, Fancy	1.50	to 2.00	2.00	to 3.00	1.50	to 2.00
" " Ordinary	1.00	to 1.50	.75	to 1.00	.50	to 1.00
Cattleyas	20.00	to 25.00	30.00	to 40.00	12.50	to 25.00
Dendrobium formosum	.....	to 25.00	.....	to .....	.....	to
Lilies	4.00	to 6.00	10.00	to 12.50	6.00	to 10.00
Lily of the Valley	3.00	to 5.00	4.00	to 5.00	5.00	to 6.00
Snappdragon	2.00	to 3.00	3.00	to 4.00	.....	to
Gladioli	2.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Asters	.75	to 1.50	.....	to .....	.50	to 3.00
Sweet Peas	.15	to .75	.15	to .25	.....	to
Gardenias	20.00	to 25.00	.....	to .....	.....	to
Adiantum	.....	to 1.00	1.00	to 1.25	.....	to 1.00
Smilax	10.00	to 12.00	12.00	to 15.00	20.00	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	20.00	to 25.00	25.00	to 50.00	35.00	to 50.00

WILLIAM F. KASTING Co.
Wholesale Florists

493 WASHINGTON STREET - - BUFFALO, N. Y.

J.A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

BOSTON Very dull indeed as compared with the old-style July is the flower trade of Boston this week. The writer has recently seen the rose product elsewhere and can safely say that the roses in this market at the present time are distinctly superior, a fact due no doubt in part to the summer resort demand which in years past has got the Boston grower into the habit of trying to turn out a presentable summer product. But, thus far, their industry this year in that respect meets with little appreciation, although it is high time the beaches began to make a noise like an order occasionally. Carnations are, naturally, of low quality just now, but there are at least two varieties that are producing creditable flowers—Morning Glow and The Queen. Gladioli are beginning to come along rapidly and values are downward tending. Asters are not yet up to those seen in other markets farther south, but they look promising. Lily of the valley from Newport is uncommonly fine for a summer crop. In the present dearth of business a good many clerks are taking a few holidays as well as the proprietors. They will hardly be missed while things remain as they are.

CHICAGO Summers of other years have had their records for heat broken the past week, and stock has, of course, suffered. The demand is comparatively light. Carnations are showing the mid-summer size and further diminishing week by week. Among the deep pink, Ward is keeping its size and color well. Roses are getting soft and losing color and even Mrs. Russell, which till now has been so bright, is getting more or less off color. There are some very good asters coming now but more that are small. Gladioli are in fair demand and there is a good supply to choose from. Good sweet peas are scarce. There is a good supply of cattleyas and lilies and lily of the valley.

CINCINNATI For July business business is very good. Receipts are not very large and generally are taken up very readily. Shipping business is fair. Early asters are coming in strong. Gladioli are in a fair supply but more of the lighter shades might be used. Roses are in a fair supply but the larger part are very short stemmed. Other offerings include lilies, which are in good supply. Snapdragon and water lilies.

NEW YORK Those who have been hoping for an early improvement in flower market conditions are not likely to find anything in the situation this week to encourage them in their hopes. The actual sales of flowers in the wholesale district have probably aggregated smaller this week than in any similar period during the present season. The midsummer pinch of former times, due to the scarcity of roses, carnations and a few other staples, is no longer possible since the growers have taken to outdoor catch crops to fill in the gap, and the retailer who manages to capture a good substantial summer order finds no longer any difficulty in



EASTER LILIES

One of the summer flowers that we can recommend and one of the summer flowers that we are strong on, splendid quality, good stems.

\$1.50 per dozen
\$8.00 per 100

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK PHILADELPHIA
117 W. 28th St. 1608-1620 Ludlow St.

BALTIMORE **WASHINGTON**
Franklin & St. Paul Sts. 1216 H St., N. W.

**WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100
TO DEALERS ONLY**

Roses	CINCINNATI		CHICAGO		BUFFALO		PITTSBURG	
	July 24	July 24	July 24	July 24	July 17	July 24	July 24	July 24
Am. Beauty, Special.....	20.00	to 25.00	15.00	to 20.00	20.00	to 25.00	20.00	to 25.00
" " Fancy and Extra...	10.00	to 15.00	10.00	to 15.00	15.00	to 20.00	12.50	to 15.00
" " No. 1.....	6.00	to 10.00	4.00	to 10.00	8.00	to 12.00	4.00	to 10.00
Russell, Hadley.....	1.00	to 10.00	2.00	to 15.00	.....	to .....	.....	to
Killarney, Richm'd, Hill'don, Ward	4.00	to 6.00	5.00	to 8.00	.....	to	6.00	to 10.00
" " Ord.	3.00	to 4.00	2.00	to 4.00	.....	to	4.00	to 4.00
Arenburg, Radiance, Taft, Key, Ex.	4.00	to 5.00	5.00	to 8.00	.....	to	6.00	to 10.00
" " Ord.	3.00	to 4.00	2.00	to 4.00	.....	to	4.00	to 4.00
Ophelia, Mock, Sunburst, Extra.....	4.00	to 6.00	5.00	to 8.00	5.00	to 6.00	8.00	to 15.00
" " Ordinary	3.00	to 4.00	2.00	to 4.00	4.00	to 4.00	4.00	to 6.00
Carnations, Fancy.....	1.50	to 2.00	1.50	to 2.00	1.50	to 2.00	.....	to 2.00
" " Ordinary.....	.....	to 1.00	.....	to 1.00	1.00	to 1.50	.....	to 1.00
Cattleyas.....	50.00	to 60.00	40.00	to 50.00	50.00	to 60.00	35.00	to 40.00
Dendrobium formosum.....	.....	to .....	.....	to .....	.....	to .....	.....	to
Lilies.....	8.00	to 10.00	5.00	to 8.00	8.00	to 10.00	6.00	to 10.00
Lily of the Valley.....	5.00	to 6.00	4.00	to 5.00	4.00	to 6.00	.....	to
Snapdragon.....	3.00	to 4.00	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00
Gladioli.....	4.00	to 6.00	2.00	to 5.00	4.00	to 6.00	2.00	to 8.00
Asters.....	1.50	to 3.00	1.00	to 3.00	.....	to .....	.50	to 2.00
Sweet Peas.....	.....	to .....	.25	to 1.00	.25	to .75	.....	to
Gardenias.....	.....	to .....	.....	to	25.00	to 30.00	.....	to
Adiantum.....	.....	to 1.00	1.00	to 1.25	1.00	to 1.25	.75	to 1.25
Smilax.....	.....	to 15.00	12.00	to 15.00	15.00	to 20.00	12.50	to 15.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 35.00	25.00	to 50.00	35.00	to 50.00	30.00	to 40.00

securing abundant material with which to fill it acceptably. So the stores buy in dribbles, "from hand to mouth," and wholesalers are glad to get even that. The principal buying, as well as the principal haranguing and pleading on prices is done by the Greek florists, who somehow manage to hook up a sale for considerable stock every day. Roses are minute as to flower, short as to stem and brief as to life. Lily of the valley is generally of the lowest type. Longiflorum lilies run of miserable quality. Carnations have vanished. Cattleys are not plentiful but even the best gigas flowers are not wanted at any price. Gladioli are coming in very heavy and asters of excellent quality are heaped high on the sale tables. Other garden stuff seen on all sides includes hydrangeas, gail-lardias, coreopsis, cornflowers, marigolds, scabiosa, zinnias, annual and perennial larkspurs, and many other things which florists in former times seldom troubled themselves about. Even the dahlia crop has already begun to materialize and some very good blooms are seen.

PHILADELPHIA There is nothing new to report on the cut flower market here since our last week's resume. The tide ebbs lower and lower and one half of the standard bearers are off on vacation. There's a bit of a stir every morning up to 10 A. M. but after that the lone holders of the forts stand around and swap stories. In most of the places one half the reduced forces are allowed the afternoon off. These lads ought to consider themselves lucky. If they were working for dry goods houses, department stores and such places they'd get "fired" —and hired back again (maybe) when business picked up.

PITTSBURGH Business continues really remarkably good for the mid-summer season and the majority of stock is just about what could be expected during a two weeks' period of blazing skies. Roses and carnations are most inferior, while both lilies and gladioli are pronounced "fine." Asters, some of very good quality and

(Continued on page 111)

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK

Telephones: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street

Telephone No. 755
Farragut

New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE 608 | MADISON SQ., NEW YORK

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.
Tel. 1933 | Mad Sq. 119 W. 28 St., New York

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.

Wholesale Commission
READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE 2281 | 3089 | FARRAGUT 131 West 28th St., NEW YORK CITY

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS
ON HAND
GARDENIAS, DAISIES, ROSES, CARNATIONS

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 7062 Madison

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones 1604 | 1865 | Madison Square

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only**MISCELLANEOUS**

Last Half of Week
ending July 22
1916

First Half of Week
beginning July 24
1916

Cattleyas	10.00	to	25.00	10.00	to	25.00
Dendrobium formosum	20.00	to	25.00	20.00	to	25.00
Lilies	2.00	to	4.00	2.00	to	4.00
Lily of the Valley	1.00	to	3.00	1.00	to	3.00
Snapefragon	.50	to	2.00	.50	to	2.00
Gladioli	1.00	to	2.00	1.00	to	2.00
Asters	.35	to	1.00	.35	to	1.00
Sweet Peas	.15	to	.50	.15	to	.50
Gardenias	12.00	to	25.00	20.00	to	25.00
Adiantum	.50	to	1.00	.50	to	1.00
Smilax	6.00	to	8.00	6.00	to	8.00
Asparagus Plumosus, & Spreng. (100 bunches)	10.00	to	20.00	10.00	to	20.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for do-
ing our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK
Phones 2036, 2037, 558 Farragut

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797-798-799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality.

114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13—8510 Madison Square

MAURICE L. GLASS, Treasurer

Consignments Solicited

Flower Market Reports

(Continued from page 11.)

water lilies are coming in nicely. For these latter, however, there is poor demand.

The market during ST. LOUIS these hot days is pretty well demoralized. Flowers are of poor quality, demand slow and prices at their lowest point. Funeral work is about the only thing that keeps the doors open for business. Roses are poor in color and short in stem. The same may be said of carnations. Other stock brings little nowadays.

Business in the national capital is literally shot to pieces and were it not for the funeral work and the occasional sale of cut flowers all of the dealers could readily shut up shop and take an extended vacation. It is claimed that there is a shortage of good stock but no one misses it. The carnations that are coming in are remarkably good for this season. Roses are not very good and this is particularly true of flowers shipped in from the North which reach here in very bad shape. Asters and dahlias are increasing in quantity although the latter are not yet very good and shatter when touched.

Visitors' Register

Pittsburgh—F. G. Nelson, repr. Burlington Willow Ware Shops, Burlington, Iowa.

New York—L. J. Reuter, Westerly, R. I.; George Asmus, wife and two children, Chicago.

Washington, D. C.—S. H. Bayersdorfer, of H. Bayersdorfer & Co., Phila.; C. S. Ford, Phila.; J. W. Byvoert, Overveen, Holland.

Cincinnati—E. A. Seidewitz, Baltimore, Md.; V. J. Gorly, St. Louis, Mo.; Thomas H. Joy, Nashville, Tenn.; C. S. Niednager, Evansville, Ind.; Theodore Zetlik, Lima, Ohio; Lester F. Benson, Indianapolis, Ind.; Harry Balsey, Detroit, Mich.; LeRoy Shaw, Pittsfield, Mass.

Philadelphia—H. A. Naldrett, repr. Kelway & Son, Langport, Eng.; Mr. and Mrs. W. G. Matthews, Dayton, O.; Mr. and Mrs. J. D. Hooper, Richmond, Va.; Horace Chessemann, repr. Ralph M. Ward & Co., New York; George Asmus, Chicago; Walter Garbett, Los Angeles, Cal.; J. C. Steinhauer, Pittsburg, Kan.; Paul M. Halbrooks, Newark, Ohio; William F. Gude, Washington, D. C.

BUSINESS TROUBLES.

Chattanooga, Tenn.—D. W. Hunter, proprietor Chattanooga Nursery Co., assets, \$21,000, liabilities, \$31,000.

Washington, Ia.—Mills Seed Com-

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending July 22 1916		First Half of Week beginning July 24 1916	
American Beauty, Special	10.00	to 12.00	10.00	to 12.00
" " Fancy and Extra	6.00	to 8.00	6.00	to 8.00
" " No. 1	2.00	to 4.00	2.00	to 4.00
Russell, Hadley	2.00	to 8.00	2.00	to 8.00
Killarney, Richmond, Hillingdon, Ward, Extra	3.00	to 4.00	3.00	to 4.00
" " Ordinary	.50	to 1.00	.50	to 1.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 5.00	3.00	to 4.00
" " Ordinary	.50	to 2.00	.50	to 2.00
Ophelia, Mock, Sunburst, Extra	3.00	to 5.00	3.00	to 4.00
" " Ordinary	.50	to 2.00	.50	to 2.00
Carnations, Fancy	.50	to 1.00	.50	to 1.00
" " Ordinary	.25	to .50	.25	to .50

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street
167 & 3058 Farragut NEW YORK

Established 1888 Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists
110 West 28th St., New York
We Solicit Consignments of New
England Grown Novelties.

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST
Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square
BOSTON, MASS.
Telephone 2618-2617-2616, Main.

pany, voluntary petition in bankruptcy, assets, \$16,497.19, liabilities, \$72,611.24.

Clinton, Mass.—Hollis E. Pierce, florist, 123 High street, has filed a petition in bankruptcy. Liabilities, \$2,510; assets, \$40.

Fall River, Mass.—Commissioners have been appointed to examine the claims against the estate of the late George L. Freeman, orchid importer. The estate is declared to be insolvent.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED.
40 STATE ST. BOSTON
Telephone Main 58.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK
Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of

Good Stock Solicited

PERCY W. RICHTER, Mgr., NEW YORK
111 W. 28th Street

HERMAN WEISS

Wholesale Florist

Experienced, Progressive and can handle
shipments of growers' product
satisfactorily.

106 West 28th St., NEW YORK
Tel. Farragut 3066.

STRAIGHT WHOLESALE ONLY

FRANK MILLANG CUT FLOWERS

55-57 W. 26th St., NEW YORK
NO DESIGNS MADE UP

Obituary

Robert W. Hutchinson.

The funeral services for Robert W. Hutchinson, the well-known landscape gardener for the Pennsylvania Lines West, took place last Sunday evening at his home in Sewickley, Pa. His death occurred suddenly the previous Tuesday at Palm Beach, Florida. Mr. Hutchinson was born at Terre Haute, Indiana, on November fifth, 1862. In 1881 he was employed as a brakeman by the Pennsylvania Lines West and in two years later was made station agent at Jacks Run. He was appointed landscape gardener on March 1, 1885, and has lived in Sewickley since 1886.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-LINGDALE GREENHOUSES, Collingdale, Pa.

ASTERS

ASTER PLANTS—All the best varieties of late branching; nice stocky plants just right for transplanting. Colors: white, purple, lavender pink. Sample: 75c. per hundred, \$5.00 per thousand. W. E. ALLEN, Leominster, Mass.

AUCTION SALES

The MacNiff Horticultural Co.,
New York City.
For page see List of Advertisers.

Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price list.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

Bedding plants: Geraniums, Nutt, Ricard, Poitevine, Vaud, Buchner and Rose geraniums, 3½ and 4 in., \$6.00 and \$8.00 per 100. Cannas, Austria and Robusta (bronzel), 3½ in., \$6.00 per 100. Heliotrope (dark), 3½ in., \$6.00 per 100. S. M. B. nire, 3½ in., \$5.00 per 100. Dracaena indivisa, 5 in., \$20.00 per 100. Sallerol geraniums, Coleus Trailing Queen, double Sweet Alyssum, Begonia Vernon, white Marguerites, blue Ageratum, 3 in., \$1.00 per 100. Cash.
F. SOKOL, College St., Worcester, Mass.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS—Continued

BEGONIAS.

Mrs. J. A. Peterson (New), 2¼ in. pots, \$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.

"King Ideal" Boiler.
For page see List of Advertisers.

Hitchings & Co., New York City.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

BOX TREES—Standards, Pyramids and Bush. Price list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
Lily Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Forcing Bulbs and Plants.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

The MacNiff Horticultural Co.,
Holland Grown Bulbs.
New York City.

For page see List of Advertisers.

Mr. B. Progressive, Florist,
Everywhere, U. S. A.

Dear Sir: It will be a decided advantage as regards prices and quality to place your order with us.

Soliciting your order through this ad cuts down the overhead selling expenses and you positively get lower prices and better quality. Our terms are liberal and are a guarantee that you get a square deal, all bulbs guaranteed true to name or money refunded.

Write us and upon request we will mail you our booklet giving prices for New York or Chicago, and we also cheerfully furnish you with any information that may be desired. Those of our friends who will mail us a list of their requirements will find it has paid them to do so.

Awaiting to hear from you at your convenience, we remain,
Yours very truly,
Westerbeck & Klynn
Sassenheim, Holland.

Write to WESTERBECK & KLYNN, 11 STONE ST., NEW YORK, N. Y.

BULBS AND TUBERS—Continued

Henry F. Mitchell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.
For page see List of Advertisers.

Fottler, Flske, Rawson Co., Boston, Mass.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

CANNAS

Rowan J. Irwin, New York City.
For page see List of Advertisers.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnations Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
Pompon Chrysanthemums.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City
Emma, a Garza Anemone, Double
Pompon, pale pink.

DAHLIAS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

ORDERS BOOKED ANYTIME

For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

For List of Advertisers See Page 131

DECORATIVE PLANTS—Continued

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

EXCURSIONS

Hudson Navigation Co., New York City.
To the Heart of Lelsureland.
For page see List of Advertisers.

FERNS

A. M. Davenport, Watertown, Mass.
Ferns in Flats.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.

FLORISTS' PLANT STOCK

Aglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums S. A. Nutt, rooted cuttings,
\$8.00 per 1,000; 2½ in., \$15.00 per 1,000.
First class stock. Cash. FRANK LEITH
& SON, Haverhill, Mass.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL
King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset,
Boston.
Pecky Cypress.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

John C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.

Hitchings & Co., New York City.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Boston, Mass.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit,
Mich.
For page see List of Advertisers.

The Kervan Co., New York.

For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

Palisades Nurseries, Inc., Sparkill, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co.,
Chicago, Ill.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Mass.

Lord & Burnham Co., New York City.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Weven Hose.
For page see List of Advertisers.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

HYDRANGEAS FOR SALE

H. R. Comley, Boston, Mass.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

IRIS

J. Lewis Childs, Flowerfield, N. Y.
German Iris.
For page see List of Advertisers.

LILY BULBS

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hohmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.
Hathoro, Pa.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

R. & J. Farquhar & Co., Boston, Mass.
Trees.
For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Paul de Nave, Fall River, Mass.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

PANSY SEED

Chas. F. Stark & Co., N. J.
The Kennedy Pansy Seed Co., N. J.
For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
Giant Prize Pansy Seed.
For page see List of Advertisers.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

PEONIES

S. G. Harris, Tarrytown, N. Y.

Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

French Peonies can be shipped with celerity and security via Bordeaux-New York. Catalogues free. DESSERT, Peony Specialist, Clemonceaux d' & L., France.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

POINSETTIAS.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Crown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS. THE CONARD & JONES COMPANY, WEST GROVE, PA.

ROSE STAKES

The Carnation Support Co.,
Connersville, Ind.
For page see List of Advertisers.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Florists' Flower Seed for Present Sowing.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Lochner & Co., New York City.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Mignonette, Improved Eclipse.
For page see List of Advertisers.

Fottler, Fliske, Rawson Co., Boston, Mass.
Seeds for the Florist.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

The Leo Niessen Co., Philadelphia, Pa.
For page see List of Advertisers.

SWEET PEA SEED

W. Atlee Burpee & Co., Philadelphia, Pa.
Winter-Flowering Spencer Sweet Peas.
For page see List of Advertisers.

Arthur T. Boddington Co., New York City.
Winter Flowering Spencer Sweet Peas.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Seed.
For page see List of Advertisers.

TREES

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

Celery Plants. Golden Self-blanching (French Strain), fine plants, ready for the field. \$2.00 per 1,000; 5,000 for \$7.50. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VINCAS

Vinca Var., 4 in., heavy, \$12.50 per 100; good, \$10.00 per 100; extra heavy, \$15.00 per 100. WILLIAM CAPSTICK, Auburndale, Mass.

WEED KILLER

Pino-Lyptol Chemical Co., New York City
Pino-Lyptol Weed Killer.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 2 Winthrop Sq.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 493 Washington St.
For page see List of Advertisers.

Chicago

Boehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

I. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 264-266 Randolph St.
For page see List of Advertisers.

WHOLESALE FLORISTS New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
For page see List of Advertisers.

Hentz & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Traendly & Schenck, 436 6th Ave., between 26th and 27th Sts.
For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

Woodrow & Markatos, 37 and 39 W. 28th St.
For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 53 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Guttman & Reynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunther Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St.
For page see List of Advertisers.

George W. Crawbuck Co., 57 West 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-20 Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

WHOLESALE FLORISTS Rochester, N. Y.

George B. Hart, 21 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers In This Issue

ANNUAL MEETING.

Florists' Hall Association, Saddle River, N. J.
For page see List of Advertisers.

AZALEAS AND PALMS.

August Bolker & Sons, New York City.
For page see List of Advertisers.

BOSTON FERNS.

R. Vincent, Jr. & Sons Co., White Marsh, Maryland.
For page see List of Advertisers.

EARLY FLOWERING SWEET PEAS.

Stumpp & Walter Co., New York City.
For page see List of Advertisers.

EASTER LILIES.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

GIANT PANSY SEED.

Henry F. Mitchell Co., Philadelphia, Pa.
For page see List of Advertisers.

TREES, SHRUBS, VINES and HERBACEOUS PERENNIALS

By JOHN KIRKEGAARD

Formerly Assistant to Director of the Royal Botanical Gardens, Copenhagen, Denmark. Latterly Twenty Years in American Forestry and Botanical Work.

Assisted by DR. H. T. FERNALD,

Professor of Entomology Massachusetts Agricultural College and Entomologist, Massachusetts Agricultural Experiment Station.

and PROF. E. A. WHITE,

Professor of Floriculture, New York State College of Agriculture at Cornell University.

A Great Book A Beautiful Book
A Comprehensive Book

A Practical Book By Practical Men
There Is No Other Book Like It

410 Pages. Planting Plans. Tabular Description and Classification of Species. 59 Full-Page Illustrations in Tone. Authoritative Articles on Many Subjects.

New Edition

BEAUTIFULLY BOUND IN CLOTH
Price only \$2.50 net. Mailing
Price, \$2.71. Money-Back
Guarantee

Order it from HORTICULTURE
147 Summer St., Boston

MISCELLANEOUS

WANTED TO LEASE, immediately, with privilege of purchase, about 12,000-15,000 feet of glass. Easy reach of Boston preferred. Particulars to EDE, Willow Street Greenhouses, West Roxbury, Mass.

WANTS, FOR SALE, Etc.

HELP WANTED

WANTED: Experienced guest clerk, assistant, American, single, preferred, no experience or crank need apply. Ref. experience, nationality and wages expected. Apply to MRS. A. I. COLBURN, 68 Graham St., Gardner, Mass.

SITUATIONS WANTED

Gardener with first-class references, 10 years old, married, no children. Experience in and outdoors on well-known private places. Address "R. S.," care HORTICULTURE, Boston.

FOR SALE

RETAIL SEED AND FLOWER STORE

25 miles from Boston in city of 90,000 population. Old established concern doing a business of \$35,000 to \$40,000 a year, about one-half of which is seed trade. Address "T. R.," care HORTICULTURE.

FOR SALE—One 6-inch Castle Circulator complete with motor, one 6-inch Blower for forced draught; 2½, 3 and 4-inch gate valves. Write if interested. CHAS. H. RICE, Bedford St., Lexington, Mass.

THE NUT-GROWER

The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

GRUBS IN LAWN.

Editor HORTICULTURE,

Dear Sir:—Will you answer the following in your valuable paper? My lawn is full of a small grub like a caterpillar, with a golden-colored head. It kills the grass very fast by eating the roots. What is the cause, and cure for same?

BROOKLYN.

The grub complained of is the larva of a beetle, very probably the May beetle or June bug as sometimes called. The eggs are laid in the ground and the grubs live in the soil for a period of three years before emerging. The best remedy is to plow or dig in the fall and give chickens or ducks a chance to feed on the grubs. A good dose of lime mixed into the soil will finish what the chickens do not find. Kerosene emulsion applied to the lawn will usually be found a good remedy. If the soil is light sometimes the use of a heavy roller on the lawn will crush the grubs.

In writing to Advertisers kindly mention Horticulture

DURING RECESS

Gardeners' and Florists' Club of Boston.

The annual picnic of this Club was held at Cunningham Park, East Milton, on Thursday, July 27, 1916. These annual picnics draw an increasing attendance each year, and the committee in charge had spared no effort to make this year's event the finest in every respect the Club has yet held. Unfortunately the day was lowering and uncomfortable and about noon a torrent of rain lasting for an hour drove the picnickers to shelter. They repaired to the gymnasium where music, singing and dancing helped to pass the time until the storm ceased and the interrupted games could be resumed. The games were under the direction of the following:

Ringmaster, W. J. Kennedy; Starter, Peter M. Miller; Clerk, W. N. Craig. Umpires—Men's Baseball, Frank Edgar and A. K. Rogers; Ladies' Baseball, Frank Edgar and A. K. Rogers; Boys' Baseball, J. P. A. Guérineau; Soccer Football, F. E. Palmer.

Judges: W. J. Patterson, W. C. Rust, H. H. Bartsch, A. K. Rogers, W. H. Judd, George W. Hamer, John G. Duguid, Robert Cameron, Frank Edgar, Kenneth Finlayson, F. E. Palmer, Charles Holbrow.

List of Winners.

1—Baseball: Commercial Growers vs. Private Gardeners; Captains: William Mix, Commercial; W. J. Iliffe, Private.

Won by Private Gardeners. Score, 3-2.
2—Quoit Match: Individual 1st, 2nd, and 3d. prizes. Captain: John F. Duguid.
1st, M. Brown; 2nd, John Duguid.

4—Baseball: Married vs. Single Ladies. Captains: Mrs. John F. Flood and Susan E. Rogers.

Won by Single Ladies. Score, 18-13.
5-100-Yard Race, girls 12 to 14.
1st, Elsie Bartsch; 2nd, Dorothy Palmer.

6-50-Yard Race, boys under 8.
1st, Walter Costello; 2nd, George Cray.

7-50-Yard Race, girls under 8.
1st, Ethel Cray; 2nd, Hilda Smith.

8-75-Yard Race, girls 10 to 12.
1st, Mary Flood; 2nd, Marion Iliffe.

9-75-Yard Race, boys 10 to 12.
1st, Norman Craig; 2nd, Robt. Esty.

10-50-Yard Race, boys 8 to 10.
1st, Nelson Bartsch; 2nd, Jos. Smith.

11-50-Yard Race, girls 8 to 10.
1st, Margaret Cray; 2nd, Ruth Brown.

12-100-Yard Race, boys 12 to 14.
1st, Prescott Whyte; 2nd, Thos. Roland.

13-100-Yard Race, men over 30.
1st, E. S. Brown; 2nd, F. E. Palmer.

14-100-Yard Race, married ladies.
1st, Mrs. Edgar Kelly; 2nd, Mrs. Fred Coles.

15-100-Yard Race, ladies 18 and over.
1st, Edith Iliffe; 2nd, Alice Duguid.

16-100-Yard Race, boys 14 to 18.
1st, J. Rogers; 2nd, Douglas Duguid.

17-100-Yard Race, Club members only.
1st, W. J. Iliffe; 2nd, H. L. Pree.

18-Flag Race, girls under 15.
1st, Doris Bartsch; 2nd, Flora Donald.

19-Potato Race, boys under 15.
1st, T. Toland; 2nd, J. Duguid.

20-100-Yard Race, girls 14 to 18.
1st, Margaret Iliffe; 2nd, Alice Duguid.

21-100-Yard Race, men 175 pounds and over.
1st, J. Lally; 2nd, J. L. Smith.

22-Sack Race, boys under 16.
1st, J. Edgar; 2nd, Prescott Whyte.

23-Sack Race, Club members only.
1st, T. S. Brown; 2nd, C. S. Falberger.

25-Obstacle Race.
1st, Theo. Palmer; 2nd, H. L. Pree.

26-Tug of War: Commercial Growers vs. Private Gardeners. Captains: H. H. Bartsch, John L. Smith.

Won by Private Gardeners.

27-Football (soccer). Captains: John Miller and William J. Collins.

Won by Miller's team. Score, 3-0.

28-50-Yard Race, children under 6.
1st, Walter Costello; 2nd, Frank Duguid.

The ladies' baseball game was excruciatingly funny and proved by far the most popular of all the sports. They used a large inflated ball and after it had rolled in the mud a few times it was hardly an acceptable adjunct for white dresses and delicate hands but the players stuck to the job with commendable courage. The only accident was a blow in the face from a batted ball sustained by a lady who was watching the men's baseball game. The soccer football match developed some phenomenal kicking in which Peter Miller especially excelled.

Florists' Club of Washington, D. C.

The annual outing, held on Wednesday, July 19, at Great Falls, Va., will go down into the club's history as another of the famous events which serve to lighten cares and worries and bring sunshine into the lives of the little ones who participated in the affair. The afternoon broke clear and sufficiently cool to enable the holding of a large number of athletic events. The fun started when the three special and two regular cars, carrying about four hundred people, left Georgetown. In addition to the athletic events, there was a musicale on the pavilion followed by dancing, and in the evening Adolph Gude played Santa Claus and set off a lot of fireworks.

The schedule of games and the winners were as follows:

Potato race for girls 12 years and under—1st prize, Rose Minder; 2d, Lillian Anderson.

Potato race for boys 12 and under—1st, Percy Booth; 2d, Arthur Booth.

Potato race for boys and girls 7 years and under—Catherine and Harry Oldridge, Taylor Anderson and Alice Johnson.

Potato race for ladies—Won by Marjorie Laning.

100-yard dash for men—Frank Weaver, winning \$10 gold piece offered by the Leo Niessen Co.

50-yard dash for ladies—1st, Margaret Shaw, winning Japanese Garden from H. Bayersdorfer & Co., Phila.; 2d, Pearl Shippe, bridal veil from Lion & Co.

100-yard dash for boys 18 years and under—Ernest Robinson.

Three-legged race—E. Cahill and Frank Weaver.

The next event, the 100-yard dash for members only, brought out a big line-up. The winners were, 1st, Samuel Everett; 2d, Harry Ley.

Centipede race—Won by Harry Ley, Frank Weaver, Charles Scarborough and Arthur Shaffer.

Pole vault, prize from H. A. Dreer—Won by Charles Scarborough.

A novelty this year was a game for the ladies called threading the needle which was productive of much amusement. The first prize, from Dreer, \$10 in gold, was won by Mrs. F. M. Blake. Miss Fowler scored second and won the handsome silk parasol offered by George H. Cooke, ex-president of the club.

Putting ball in basket, married women—Mrs. Skinner, winning bird cage and stand offered by Reed & Keller, New York. Among the single women, Isabel Collins won the Pennock-Meehan parasol, and Miss Fowler a bolt of fancy ribbon. In the mixed event, for married and single women, Mrs. Warren Anderson won.

A traveling bag, in the quilt singles, was won by Mr. Soper. Samuel and Robert Soper are each the possessor of a new umbrella as a result of being equally successful in the quilt doubles.

Those who served on the committee were William H. Ernest, chairman; George C. Shaffer, Jake Richards, Harry B. Lewis, Edward S. Schmid,

TO THE HEART OF LEISURELAND

where woods are cool, streams alluring, vacations ideal. Between New York City (with Albany and Troy the gateways) and

LAKE GEORGE, THE
ADIRONDACKS, LAKE
CHAMPLAIN, THE
NORTH AND WEST

The logical route is "THE LUXURIOUS WAY." Largest and most magnificent river steamships in the world—DAILY SERVICE.

Send for free copy of Beautiful "Searchlight Magazine"

HUDSON NAVIGATION CO.

Pier 32, North River

New York

"The Searchlight Route"

William Marche, A. Schnell and George H. Cooke. Others who assisted were G. Milton Thomas, J. J. Barry, Harry Ley, Adolph Gude and J. Minder.

St. Louis Florist Club Picnic

The 23rd annual picnic of the St. Louis Florist Club was held in Romona Park, July 20th. The day was clear but very hot and the grounds showed badly in need of rain. The crowd numbered nearly 400, and a fine automobile parade was made from the wholesale district out to the park.

Prizes for the affair were donated by Geo. Waldbart, Mrs. Schoenle, J. J. Beneke, G. H. Augermüller, C. Young & Sons Co., F. Sanders, St. Louis Retail Florists' Assn., D. S. Geddis, C. Beyer, J. Bourdet, St. Louis Wholesale Cut Flower Co., Windler Wholesale Floral Co., St. Louis Florist Club, Grimm & Gorley, H. G. Berning, W. C. Smith, St. Louis County Growers' Assn., St. Louis Seed Co., W. C. Smith Wholesale Floral Co., C. A. Kuehn and others.

The winners were as follows:

Pot Throwing—1st, A. Jablonsky, Jr., 2nd, A. Vandevine.

75-yard Dash—1st, K. Ogle; 2nd, A. Von Hoffman, Jr.

50-yard Dash, Boys—1st, L. Weinsberg; 2nd, James Tantill.

50-yard Dash, Men—1st, Joe Hauser; 2nd, J. J. Beneke.

Harem Race—1st, Mrs. A. Jablonsky; 2nd, Mrs. C. Johnson.

Time Walk—1st, Mrs. W. H. Schaefer; 2nd, Mrs. O. N. Sanders.

Needle Threading—1st, Mrs. Geo. Deugs; 2nd, Mrs. Kopp.

Ball Scramble—1st, A. Jablonsky; 2nd, Art. Wettau.

Flag Race—1st, Virginia Cerny; 2nd, Miss Arline Meyer.

Box Fight—1st, Miss V. Richter; 2nd, Miss L. Price.

Egg Race—1st, Arline Meyer; 2nd, Miss M. Kuehn.

Novelty Race—1st, Andy Von Hoffman; 2nd, J. J. Beneke.

The names of the winners in the guessing contests have not been made known as yet.

Ladies' Football Game—All ladies taking part received a box of candy.

Football Game—All men taking part split two boxes of cigars between them.

The ball game was well played and attracted as usual a large crowd. The wholesalers won this time 8 to 7, having met defeat last year.

Lancaster County Florists' Picnic.

Thursday, July 20th, was an ideal day for the afternoon picnic on the shady lawn of our ex-president, B. F. Barr. The committee having it in charge—Elmer Weaver, Rudolph Nagle and Abraham Strickler—had everything planned so well that the affair went off like clock work.

The florists and their friends turned out in goodly numbers, only a few of the florists missing. There was a progressive game of cards, three games of quoit pitching, croquet and bowling

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN BEDS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market

P.-L. CHEMICAL CO., 507-509 W. 19th St., New York

CORRESPONDENCE SOLICITED.

PINO-LYPTOL

WEED KILLER

on the green—all this for the older people—and there were potato races, bag races, three-legged races and every imaginable form of amusement for the youngsters with prizes for each event.

Mr. and Mrs. Barr make an excellent host and hostess and every comfort is looked after. The Barr home is everything that any mortal could crave for and there was simply nothing lacking toward the success of the picnic.

The florist end of the party of course made an inspection of the grounds and the nursery end of the farm. Mr. Barr is working up a stock of hardy perennials and has an ideal place to demonstrate their value on his lawn. The farm end of this place is equally interesting and his stock of blooded cattle and acres of farm crops made quite an interesting side show.

The following list of visiting florists is as near complete as the writer could get to it. If any one is missed blame it to my love for the various sports indulged in. T. J. Nolan of the King Construction Co., Dennis T. Connor, of Lord & Burnham Co., and daughter, E. J. Fancourt of the S. S. Pennock-Meehan Co., Mr. and Mrs. Percy Bernard and Mr. and Mrs. E. C. Marshall of Chester County.

At an informal meeting of the Club in the evening on the porch, it was decided to hold the flower show this fall in the Heimenze Auditorium on Nov. 9th, 10th and 11th, one-half of the profits to be donated toward the procuring of an armory site for Lancaster big enough to enable us to invite conventions to this city.

ALBERT M. HERR.

Dutchess County Florists.

Thirty-eight members of the Dutchess County Floricultural Society of which William G. Saltford of Poughkeepsie is president, were guests on July 19 of George and David Burgevin, of Kingston, where they visited the extensive plant of Vallentin Burgevin, Inc. Refreshments were served and about 1 o'clock the visitors were taken in automobiles around the Ashokan dam, and on their return, autoed to Lake Katrine where a clam bake and dinner was enjoyed.

Waretown Rod and Gun Club.

Commodore Westcott's bungalow was graced for three days (from the 21st to the 23rd inst.) with a distinguished company from Washington, under the guidance of William F. Gude. Among those present were Hon. Wm. Kettner, California, and Wm. E. Kenney, Wisconsin. Among the lesser lights (although he will object when he hears this) was Walter Brownley of Washington. The party spent a very pleasant time, enjoying the sea breezes and rural delights of this unspoiled

fashioned retreat's harbor—and farmers' rest—where the primitive has not yet merged into the ultimate and is the haven of rest for poetic souls. They will surely yearn to return again to this hallowed spot provided the buzz heard "oft in the stilly night was not too strong.

G. C. W.

Essex County Florists' Club.

The third annual outing of the Essex County Florist Club will take place on Thursday, Aug. 3, at Berkeley Heights, N. J. James J. McLaughlin, 181 Clinton avenue, Newark, N. J., is the secretary.

TO ERADICATE WILD ONION.

Along the Atlantic coast region, from Massachusetts to Georgia and as far inland as Missouri, the wild onion or wild garlic is found as one of the most noxious weeds. It is most troublesome in small grain fields, lawns, and pastures.

It is highly important to know how this weed grows, because on a knowledge of its life habits is based the best methods for its control or eradication.

In cultivated fields the plants are likely to be scattered, but in pastures, lawns, and other places that have not been disturbed for several years the plants grow in clusters or clumps. The wild onion ripens in June or July and produces on the top of the stem. 1½ to 3½ feet high, a cluster or clusters of aerial bulblets, sometimes erroneously called seeds. The underground portion contains from two to six newly formed bulbs located at the base of a plant. The aerial bulblets have soft shells and germinate in the fall. Some of the underground bulbs have soft shells and germinate in the fall, while others have hard shells and remain dormant through the winter months, germinating the following spring.

To rid a cultivated field of wild onions the work must be started in the fall. The object of this work is to destroy the plants from the soft-shell bulbs before they have advanced far enough to produce new bulbs. As soon as the new plants are 12 to 15 inches high, or during October and November in the South and November and December in the North, the owner should plow his land fairly deep, being careful to turn under all the onion tops. A plow with a jointer attached to the beam will be found convenient for this operation. Disking the land before it is plowed also helps to bury the tops. This method will get rid of the plants which have grown from the soft-shell bulbs.

It now remains to get rid of the next crop that may be expected from the slower germinating, hard-shell

bulbs during the coming spring and summer. Next spring, therefore, the field should be planted in a cultivated crop, corn in check rows being best. Another shallow plowing may be necessary in the spring, but ordinarily a disking or two previous to planting will suffice. From the time the farmer is able to go on his land in the spring he should make every effort to keep the garlic from making top growth. The best way to do this is to cut off



The Recognized Standard Insecticide. A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUMIGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co. MADISON, N. J.



IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON



NIKOTEEN

For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer For It.

NICOTINE MFG. CO. ST. LOUIS

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

the tops with a cultivator of the sweep type.

There still may be a few plants carried over by hard-shell bulbs which have been very slow in germinating. The farmer, therefore, should be prepared to repeat the deep plowing late in the fall, and to use a cleanly cultivated crop the second spring. This treatment, which can be carried out with little extra labor and expense, has proved in practice an almost certain method of eradicating wild onions in two years.

Experience has shown that in the case of small grains on infested fields if plowing is delayed until a late date in the fall and the land is then planted to small grain, only a few onion plants will ripen their early bulblets by harvest time the following summer. Since the plowing to be effective against the onion must be done at such a late date as to interfere with the best development of fall-sown grains, spring grains should be planted where it is possible. If fall grain must be sown the farmer should bear in mind that the delayed planting probably will reduce the yield.

Grain raisers in wild-onion districts should be particularly careful to keep their seed free from the bulblets. This can be accomplished by thorough drying before cleaning, as the bulbs when dry are lighter than the grain and can be winnowed out. The safest way, however, is to obtain seed from an outside source where no onion exists or to produce seed grain on a separate patch kept absolutely free from the onion.

In lawns the aerial bulblets are seldom produced because the tops are kept cut back with the lawn mower, but the plant propagates by producing underground bulbs and is most often found growing in clusters. To eradicate from lawns where the onions are not too plentiful, a good plan is to dig out the entire cluster with the mattock when the soil is soft. The hole thus made should be filled with soil and planted to grass seed. Another successful method for killing onions in lawns is by the use of chemical plant poisons, as coal-tar creosote oil or carbon bisulphide. A small amount of the poison should be applied directly to each cluster. This can best be done by using a small spring-bottom oil can. After the onions are dead the bare spot left should be seeded to grass.

PATENTS GRANTED.

- 1,190,476. Hedge and Grass Cutter. Percy O. Smith, Freeport, N. Y.
1,190,605. Protecting-Shield for Plants. John Stockfleth, San Francisco, Cal.
1,191,643. Lawn and Garden Sprinkler. Andrew Wilson and Albert Pinkava, Springfield, N. J.
1,191,814. Leaf-Gathering and Lawn-Treating Implement. Louie T. Murrah, Dallas, Texas.

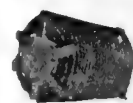
FLORICULTURE IN OHIO STATE UNIVERSITY.

Mr. Alfred Vivian, Dean of the University, writes that the College of Agriculture of Ohio State University is undertaking to develop the work of instruction in Floriculture in a much more elaborate way than has been possible in the past. The Floriculture business of Ohio is very large, but up to the present time, it has not been possible to give this work the consideration it deserves for lack of proper facilities. The new horticultural building, with its excellent greenhouse equipment, now makes it possible for the College to take up this work and put it on a firm basis. Alfred C. Hottes, of Cornell University, has been engaged to take charge of the development of the work in Floriculture.

Mr. Hottes received his secondary education in the high schools of Ithaca, N. Y., and was graduated from Cornell University in 1913, receiving his Master's degree in the following year. Since that time he has been instructor in floriculture at Cornell University. He is enthusiastic regarding the possibilities of floriculture in Ohio, and comes to the College with the heartiest recommendations of such men as Dean L. H. Bailey. He is a member of the Nomenclature Committee of the American Gladiolus Society.

**GREENHOUSES BUILDING OR CON-
TEMPLATED.**

- Minot, N. D.—Geo. E. Valke, additions.
Webster City, Ia.—Curtis Floral Co. additions.
Youngstown, O.—W. D. O'Connor, one house.
Maywood, Ill.—Wm. Wichtendahl house 27 x 100.
Elkhart, Ind.—C. G. Conn, one house and conservatory.
Old Bennington, Vt.—Edward H. Everett, enlarging.
Chestnut Hill, Mass.—Andrew Adie, conservatory 18x75.
Stellarton, N. S.—Stellarton Nurseries, house 23 x 100.
Baltimore, Md.—George Morrison, additions and alterations.
Norwalk, Ct.—R. E. Morrison, 58 Van Zandt avenue, one house.
Dallas, Tex.—Lang Floral & Nursery Co., Haskell avenue, two houses.
Providence, R. I.—Estate Louise Evans, 27 Calla street, one house.
Spokane, Wash.—Peters & Sons, Wellesley avenue, range of houses.

**NON-KINK WOVEN HOSE**

In any length (one piece) with couplings, 14c. per foot. Unequalled at the price. Remnants, shorter than 50 feet, 10c. per foot, with couplings.

HOSE VALVE—70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

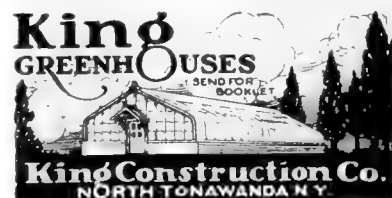
**DREER'S**

Florist Specialties, New Brand, New Style. Hose "RIVERTON." Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST
1/4-inch, per ft., 25 c.
Keel of 500 ft. " 14 1/2 c.
2 Reels, 1000 ft., " 14 c.
1/2-inch, " 13 c.
Reels, 500 ft., " 12 1/2 c.

Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

When writing to advertisers kindly
mention HORTICULTURE.

**Evans 20th Century Arm**

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

**STANDARD FLOWER
POTS**

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts., Washington, D. C.

The Annual Meeting of the Florists Hail Association of America will be held at Convention Hall at Houston, Texas, at 9 a. m. Wednesday, August 16, 1916.

JOHN G. ESLER, Sec.

FOLEY MATERIALS

ARE THE BEST FOR
Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, CHICAGO, ILL.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

KROESCHELL BOILER

SEND FOR CATALOGUE



KROESCHELL BROS. CO.
406 W. Erie St. Chicago, Ill.

MASTICA

For Greenhouse
Glazing

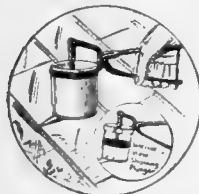
USE IT NOW

F. O. PIERCE CO.

12W. BROADWAY
NEW YORK



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

Seal-tight liquid putty at \$1.25 per gallon.
METROPOLITAN MATERIAL CO.
1392-1414 Metropolitan Ave., Brooklyn, N. Y.



EVERYTHING FOR THE GREENHOUSE
John C. Moninger Company

CHICAGO NEW YORK
922 Blackhawk St. 812 Marbridge Bldg.
CINCINNATI, 2314 Union Central Bldg.

Dror's Peerless Glazing Points

For Greenhouses

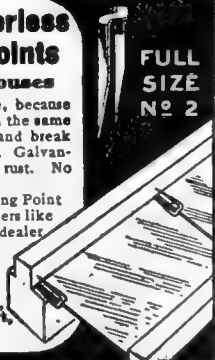
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.

Samples free.

HENRY A. DROR,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No 2



GLASS

**GREENHOUSE MATERIAL
HOT-BED SASHES**

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

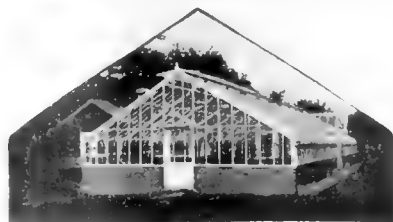
GET OUR CATALOGUE

On Ventilating Apparatus and Greenhouse Fittings

ADVANCE CO., RICHMOND, IND.

THE RIGHT WAY

Gives Us The Right Of Way



Every Metropolitan greenhouse is planned with an eye to results—successful crops.

Our cares do not cease with the mere mechanical part of the work. And, while we no doubt owe a great deal of our success to the high grade character of our labors, still we base our claims for your consideration, upon our ability to erect the right kind of a greenhouse, in the right manner, at the right price.

PUT YOUR GREENHOUSE PROBLEMS UP TO US

*We go anywhere in the U. S.
to submit plans and prices.*

METROPOLITAN MATERIAL CO.

Patented Greenhouses

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

PATENTS

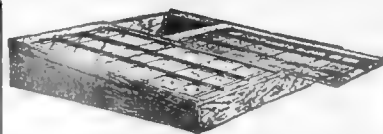
Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



HOTBED SASH at 75c. each
Made of best grade Gulf cypress.

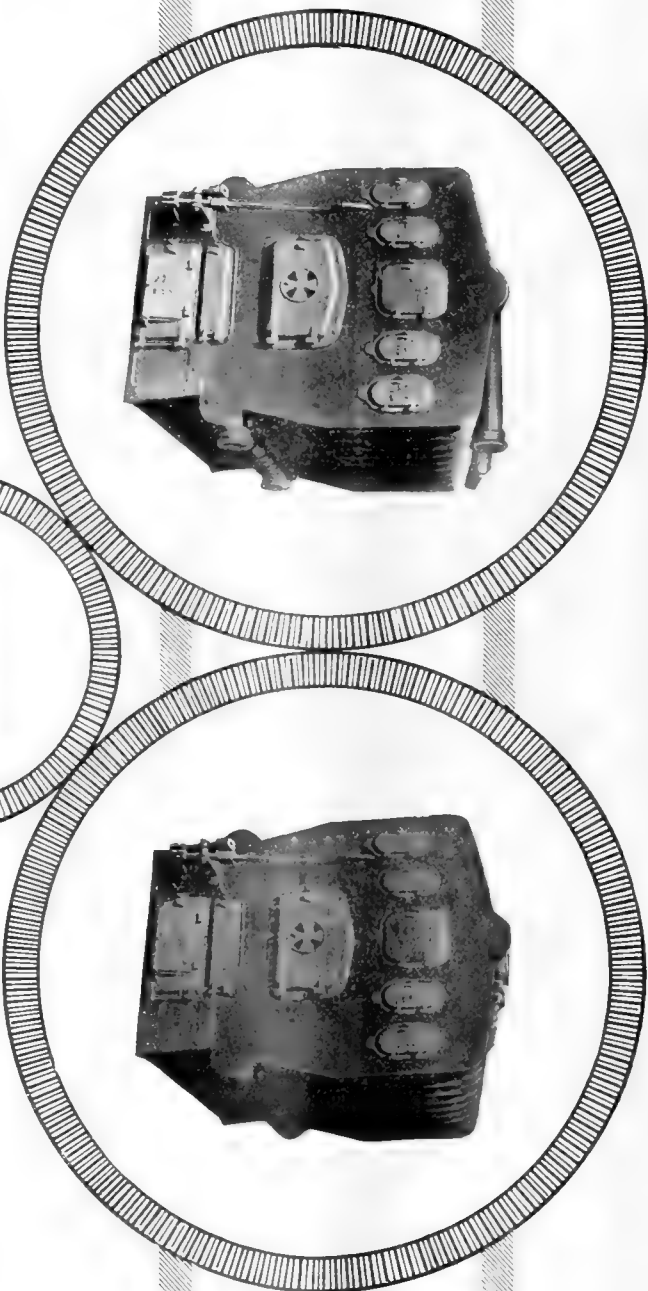
Glazed Hotbed Sash from \$1.65 up.
Double Light Sash up to \$4.00.

We carry a large stock of all sizes.
Write us for estimate.

S. JACOBS & SONS

1359-1385 Flushing Avenue BROOKLYN, N. Y.

This isn't just a cast iron sectional water boiler with hub connections for cracked joints. It's more than that—it's a Hitchings greenhouse boiler. A boiler made for greenhouses. Don't get it confused with a radiator. In one boiler room you do a winter's greenhouse work. It's an investment that will pay for itself.



Here is a Hitchings water boiler with tapped openings for screw joints. You can have as many openings as you want every section if you say so, between the front and rear. And remember that every section is held together by slots in back. It's the only way to get a tight joint. Even Mr. Hitchings has used it.

Some Hot-Point Pointers

If this year is like most years, there are just 45 days before frost. That is, reckoning on the way it's been for several years in New York and 300 miles round about. Winter moves with leaden feet, but Summer takes wings. So don't jolly yourself along into thinking there's plenty of time to have us go over your heating. Don't try to be tooxy and think you are saving interest on your money by not buying your boiler until the last minute and then getting thirty days additional time before you have to pay for it.

This is one of the short tie bolts that bolts the sections together. Makes set up; additions to; or replacing sections a simple matter. A decided improvement over the old long tie bolt method.

On Heating Do-Nows

Don't save one way and risk losing another. A month or so's interest on your money is a joke in comparison with the injury or loss of your crop. We are just plain, common sense business men who are trying to do all possible to overcome the maddening last minute rush orders for boilers, and overcome frost losses. I like everything else in business—it helps our pocket book, only because it helps yours. Order your boiler. Do it now.

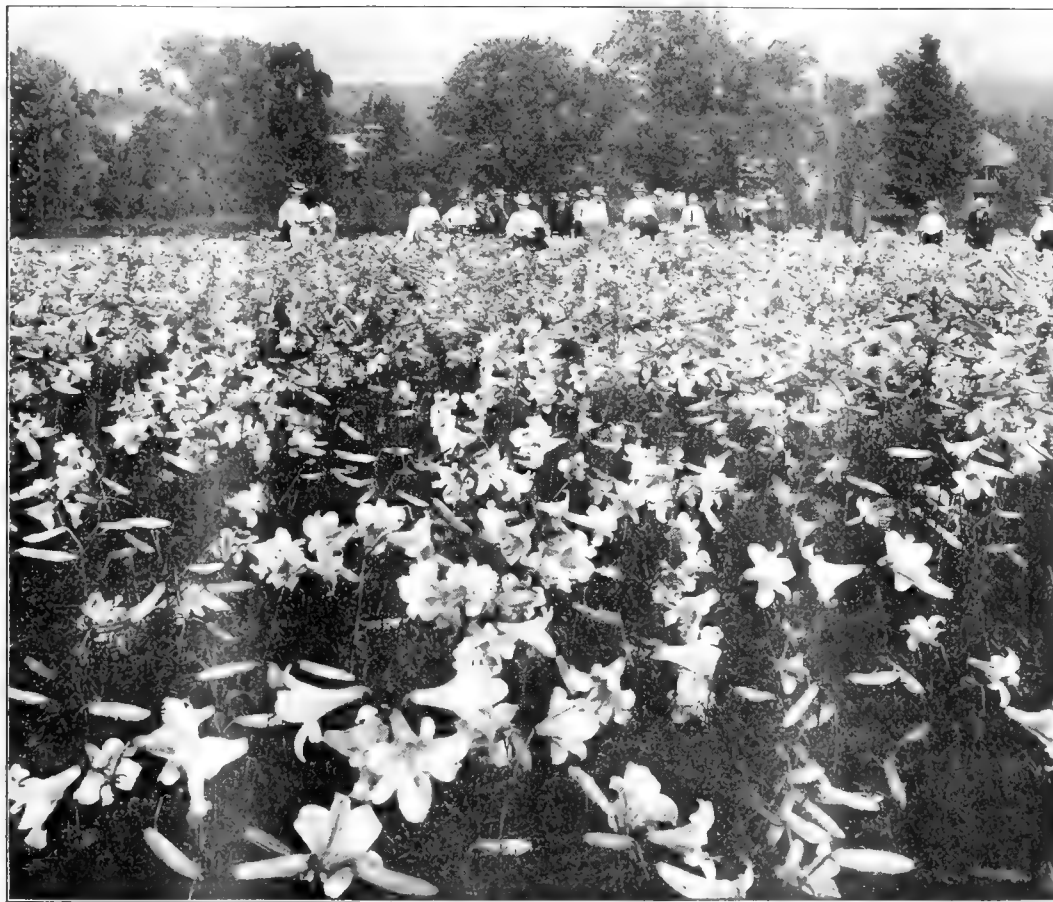
New York, 1170 Broadway
Boston, 49 Federal Street
Philadelphia, 40 S. 15th Street

Hitchings and Company

General Offices and Factory
Elizabeth, N. J.

Vol. XXIV
No. 6
AUG. 5
1916

HORTICULTURE



Lilium regale (myriophyllum)

Members of Horticultural Club and Others Inspecting a Field in Bloom at the Farquhar Nurseries,
Dedham, Mass.

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription, \$1.00



Boddington's re-selected Winter-flowering Spencers as grown by Wm. Sim, Cliftondale, Mass.

Boddington's Winter-Flowering Spencer Sweet Peas

NEW CROP SEED READY FOR DELIVERY NOW

All our Stocks are re-selected, and can be thoroughly relied upon to come true to color and description.

NEW SENSATIONAL AUSTRALIAN VARIETIES

The following varieties are, without doubt, the greatest and most valuable novelties introduced since the famous Yarrawa Spencer marked the commencement of a new era in Winter Sweet Peas.

NOW READY FOR DELIVERY

CONCORD CHARM
White with blue white wings. Heliotrope standard.

CONCORD COUNTESS
An ideal pink, lighter tint at base of standard and wings.

CONCORD COQUETTE
Mottled rosy carmine on white ground.

CONCORD DAYBREAK
Cream with standard heavily edged buff-pink.

CONCORD EMPEROR
Rich crimson-red variety.

CONCORD PURPLE
Mauve purple, changing to purple-blue.

CONCORD RADIANCE
Rosy magenta.

CONCORD WINSOME
Pink, tinted lavender.

COERULEA
Delicate sky-blue.

RUBY
A glowing light crimson-scarlet color.

SALMONEA
A rich rosy salmon variety of great merit.

Prices of all the foregoing: Packet of 18 seeds, 35 cents; 5 packets, \$1.50.

Yarrawa

Bright rose-pink, with light wings. Seed sown early in September will flower about December 1, and bloom profusely and continuously until May. They are borne usually in fours on extra-long, strong stems. Awarded Certificate of Merit, International Flower Show, New York, 1914, and the Pennsylvania Horticultural Society, March, 1915.

Australian introducers re-selected stock.....	¼ oz. \$.60	1 oz. \$2.00	1 lb. \$24.00
California grown seed.....	¼ oz. .20	1 oz. .65	1 lb. 8.00

Pink and White

	¼ oz.	1 oz.	¼ lb.	1 lb.
Christmas Pink Orchid. Standard bright pink, wings white.....	\$1.00	\$3.00	\$10.00	\$35.00
Pink-and-White-Orchid.....	.20	.65	2.00	7.50
Sensation. Newman & Legg's variety of the Christmas Pink Orchid....	1.00	3.00	10.00	35.00
The Czar. Standard rose, wings white mottled with pink.....	1.00	3.00	10.00	35.00

Apricot and Orange

Apricot Orchid. Mostly apricot self	.60	1.50	4.50	15.00
Orange Orchid. Standard orange, wings dark salmon-pink.....	.60	1.50	4.50	15.00

Lavender and Blue

Anita Wehrman. Mauve lavender...	.25	.75		
E. Burke. The best light blue. Trade pkt. (25 seeds), 50 cents.....	2.50	6.00		
Mrs. John M. Barker. Lilac with glistening dark rose, wings light blue on white ground.....	.50	1.50	4.50	15.00

White and Blush

Bridal Veil. Pure white.....	.35	1.00	3.50	12.00
Mrs. M. Spanolin. Double white.....	.35	1.00	3.50	12.00
Venus. Standard slightly bluish pink; in white.....	.50	1.50	4.50	15.00
White Orchid. Pure white.....	.20	.65	2.00	7.50

Pink and Light Pink

	¼ oz.	1 oz.	¼ lb.	1 lb.
Bohemian Girl. One of the finest pink selfs.....	\$0.50	\$1.50	\$4.50	\$15.00
Fordhook Pink. Rose-pink on white ground shading deep pink toward the edge of the standard and wings	.40	1.25	3.50	12.00
Morning Star. Self pink color.....	1.00	3.00	10.00	35.00
Mrs. Jos. Manda. Light shell-pink.	.20	.65	2.00	7.50
Miss Florence Roland. Light pink with salmon.....	.50	1.50	4.50	15.00
Mrs. A. A. Skach. Beautiful, clear, bright pink.....	.20	.65	2.00	7.50
Rose Queen. A pink of sterling merit. Size, length of stem and shade could not be improved upon.	.50	1.50	5.00	18.00
Selma Swenson. Light, soft pink...	.30	1.00		
Yarrawa. (See above.)				

Red and Rose

Belgian Hero. A beautiful rose...	1.00	3.00	10.00	35.00
Fordhook Rose. Rosy carmine.....	.50	1.50	4.00	15.00
Orchid Beauty. Dark rose-pink, with orange bluish.....	.20	.75	2.50	10.00
Red Orchid. Bright cherry-red.....	.20	.75	2.50	10.00
Sensation Scarlet. Bright scarlet...	1.00	3.00	10.00	35.00

Mixed Winter-Flowering Spencers

Containing many of the best and most expensive sorts in a wide range of color. ¼ oz., 20c.; 1 oz., 65c.; ¼ lb., \$2.00; 1 lb., \$7.50.

Florists' Flower Seeds for Present Sowing

Pansies, Giant Varieties

	Tr. pkt.	¼ oz.	Oz.
Boddington's "Challenge" Mixture.....	\$.50	\$1.50	\$5.00
Knott's Winter-flowering Mixed. Large flowers of good substance on long stems.....	.75	2.50	
Sim's Gold Medal Mixed.....	.75	1.00	
Triumph of the Giants. Extremely large flowers of beautiful colorings.....	.50	2.75	10.00
Giant Trimardeau. Mammoth mixed.....	.15	.50	1.50
Giant Madame Perret. Rich wine colors.....	.15	.85	3.00
Giant Lord Beaconsfield. Deep purple violet, top petals light blue.....	.15	.50	1.50
Emperor William. I tricolor blue, purple.....	.10	.50	1.50
Golden Queen. Bright yellow eye.....	.15	.60	2.00
Golden Yellow. Yellow, brown eye.....	.15	.75	2.50
President McKinley. Golden yellow, large dark blotch.....	.15	.85	3.00
White. Violet spot.....	.10	.60	2.00

ASPARAGUS PLUMOSUS NANUS. True greenhouse grown. 100 seeds 50c., 250 seeds \$1.00, 1000 seeds \$3.50.

PLUMOSUS NANUS. California grown. 100 seeds 50c., 250 seeds 75c., 1000 seeds \$2.50.

	Tr. pkt.	½ Tr. pkt.
CALCEOLARIA, Boddington's Perfection Mixed....	\$1.00	\$.60
CINERARIA, Boddington's Matchless Mixed.....	1.00	.60
CINERARIA, Boddington's Stellata Mixed.....	1.00	.60
MIGNONETTE, Boddington's Majesty. The finest Mignonette for winter forcing.....	Per oz., \$7.50	1.00 .60
SCHIZANTHUS Boddingtonii.....	Tr. pkt. 75c.; 3 for \$2.00	

Winter Stock

	Tr. pkt.	¼ oz.
Beauty of Nice. Daybreak pink.....	\$.25	\$1.00
Lenox Purple. Light purple.....	.25	1.00
Princess Alice. Pure white.....	.25	1.50
Queen Alexandra. Rosy lilac.....	.25	1.00

5% DISCOUNT FOR CASH WITH ORDER.

ARTHUR T. BODDINGTON CO., Inc., 128 Chambers St., New York City

GERANIUMS

Alphonse Ricard, Beaute Poltevine, S. A. Nutt, Gen'l Grant, Mad. Ruchner, Mad. Recamier, Jean Oberlee, Abble Schaefer, Mad. Landry, La Favorite, Jean Vlaud and other good kinds, in good 3-in. stock at \$3.00 per 100, \$25.00 per 1000; 2-in. at \$2.00 per 100. We have a large stock on hand for immediate shipment and are booking orders for next season.

BOSTON FERNS, 4 inch, \$15.00 per 100; 7-inch, \$6.00 per doz.; 8-inch, \$1.00 each, \$9.00 per doz. Large plants in 11 and 12 inch pots, \$2.50 and \$5.00 each.

	2-in.	2-in.	3-in.	3-in.		2-in.	2-in.	3-in.	3-in.
	100	1000	100	1000		100	1000	100	1000
ALYSSUM, Dwarf and Giant.....	\$2.00	\$18.50	\$3.00	\$25.00	PARLOR IVY, S. Scandens.....	\$2.00	\$18.50	\$3.00	\$25.00
COLEUS, ten varieties.....	2.00	18.50	3.00	25.00	POMPON CHRYSANTHEMUMS ..	2.00	18.50	3.00	25.00
CUPHEA PLATYCENTRA.....	2.00	18.50	3.00	25.00	SALVIA, Bonfire and Zurich.....	2.00	18.50	3.00	25.00
LEMON VERBENAS, six varieties.	2.00	18.50	3.00	25.00	SWAINSONA, White.....	2.00	18.50	3.00	25.00
MOONVINES.....	2.00	18.50	3.00	25.00					

CELERY, White Plume, Giant Pascal and Golden Heart \$1.00 per 1000; 10,000 and over 85c. per 1000.

PARSLEY, Dwarf Fern leaf; 25c. per 100, \$1.25 per 1000.

CASH WITH ORDER.

R. VINCENT, Jr., & SONS CO.,

WHITE MARSH,
MD.

LILY OF THE VALLEY PIPS

Danish and German Stock

Booking Orders now for
1916 Crop

LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

Valley

GERMAN, SWEDISH
AND DUTCH PIPS

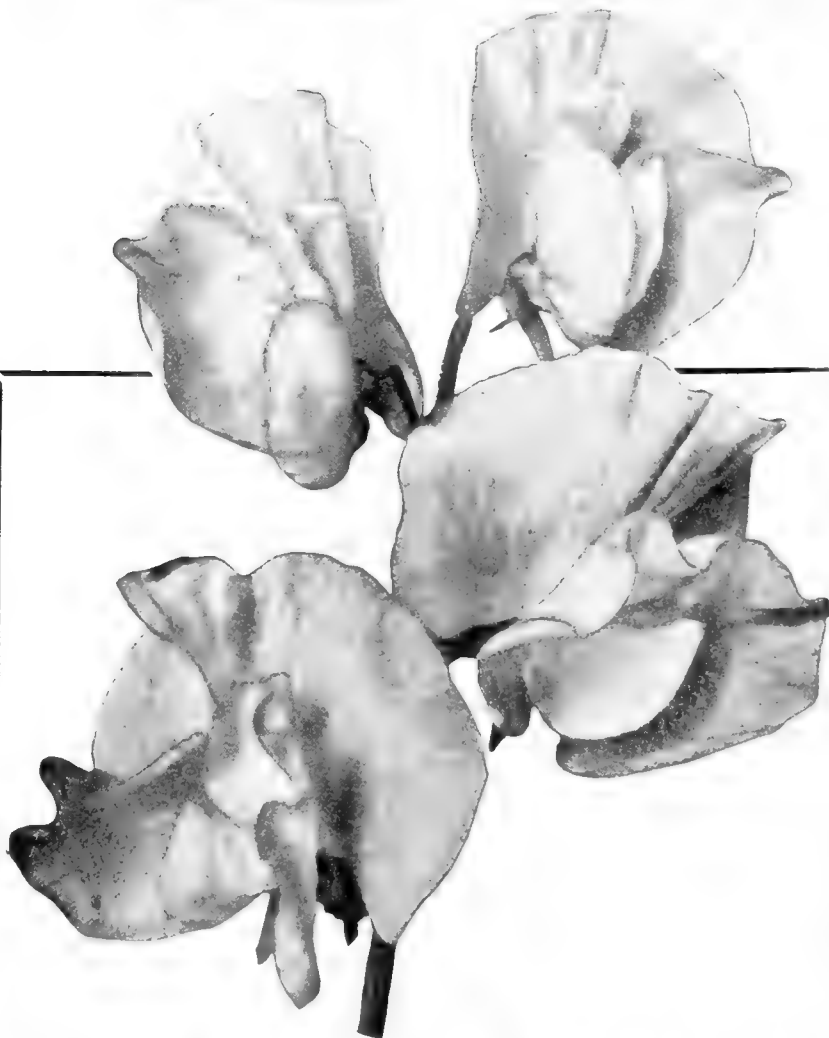
CHAS. SCHWAKE & CO., Inc.

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....191	Craig, Robt. Co.165	Guttman & Ray- nor.....182	McManus, Jas...182	Pierson, A. N....166	Smith, Elmer D. & Co.....164
Albany Cut Flower Ex....182	Crawback, Geo. W. Co.....183	Hall Association.190	McConnell, Alex.178	Pierson, F. R....165	Smith, P. J.....182
Allen, J. K.....183	Dards.....178	Hart, Geo. B....182	MacNiff Horticul- tural Co.....165	Poehlmann Bros Co.....180	Smith & Fetters.179
Anderson, S. A..179	Davenport, A. M.166	Henderson, A. & Co.....175	Marshall, W. E. & Co.....175	Pulverized Man- ure Co.....188	Smith, W. & T. Nursery Co....165
Anglin & Walsh.165	Dreer, H. A..189-190	Hentz & Nash...182	Metropolitan Ma- terial Co...190-191	Randall's Flower Shop.....178	Smyth, Wm. J. 179
Apblne Mfg. Co.188	Dorner, F. & Sons Co.....164	Hess & Swoboda.179	Michell, H. F. Co.....175	Reed & Keller..180	Stearns, A. T. Lumber Co....191
Badgley & Bishop, Inc.....182	Dunlop, John H.179	Hews, A. H. & Co.....189	Michigan Cut Flower Ex....180	Riedel & Meyer..182	Stumpp, G. E. M.178
Barrows & Son..164	Eastern Chemical Co.....188	Hill, E. G. Co..180	Millang, Chas..182	Reid, Edw.....180	Thorburn, J. M. & Co.....175
Bayersdorfer, H. & Co.....172	Edwards Folding Box Co.....180	Hill, D. Nursery Co.....165	Millang, Frank.183	Reuters.....179	Totty, Chas. H.184
Bay State Nur- series.....165	Elliott Auction Co.....165	Holland Nurser- ies.....165	Moninger, J. C. Co.....191	Robinson, H. M. & Co.....183	Trandly & Schenck.....182
Bobbinck & At- kins.....165	Elizabeth Nur- series.....173	Holm & Olson..178	Murray, Samuel.178	Robinson, H. M. Co.....182	United Cut Flower Co.....183
Boddington, A. T.162	Ernest, W. H....189	Irwin, R. J....156	National Nur- seryman.....165	Rochrs, J. Co....166	Valentine, J. A.178
Bolgiano & Son.175	Ester, J. G....180	Jacobson, S. & Sons.....190	Nave, Paul de..166	Roland, Thomas.178	Vincent, R. Jr., & Sons Co....163
Breck, J. & Sons.175	Evans, J. A. Co.181	Kasting, W. F. Co.....180	Nicotine Mfg. Co.....188	Roller, A. & Sons.....165	Wants, For Sale.187
Brietmeyer's J. Sons.....178	Eyres.....179	Keller, J. B. Sons.....178	Niessen, Leo Co.180	Rosery, The....178	Ward, R. M. & Co.....164
Rudlong, J. A..180	Farquhar, R. & J. & Co.....175	Kerr, the Florist.179	Nut Grower.....187	Schling, Max....178	Weber, F. C....179
Bunyard, A. T....178	Foley Mfg. Co..181	Kervan Co.....182	Ouwkerk, P....165	Schwake, Chas. Co.....163	Weiss, Herman.183
Burnett Bros....175	Ford, W. P....182	King Construc- tion Co.....190	Palisades Nur- series.....165	Sharp, Partridge & Co.....191	Welch's.....180
Burpee, W. A. & Co.....164	Fottler, H. S. Rawson Co....175	Knoble Bros...179	Palmer, W. J. & Son.....179	Sheridan, W. F.182	Welch Bros. Co.180
Carnation Support Co.....165	Frost, Chas....166	Kramer, F. H..179	Park Floral Co.178	Siebr, H. Geo. C.182	Welch, Patrick..183
Carter's Tested Seeds, Inc....174	Froment, H. L..182	Kroeschell Bros.191	Parshelsky Bros.190	Seibrecht, W. R.182	Wood Bros....164
Child's, John Lewis.....164	Galvin, Thos. F.179	Kuebler, W. H..182	Pellicano, Rossi & Co.....179	Siggers & Sig- gers.....190	Woodrow & Mar- ketos.....180
Clarke's D. Sons178	Gasser Co., J. M.179	Lange, H. F. A.179	Penn the Florist.179	Skidelsky, S. S. Co.....175	Young, John & Co.....182
Clucas, R. W....165	Graham, Adam & Son.....179	Leonard Seed Co.175	Pennock-Meehan Co.....181	Small, J. H. & Sons.....183	Young & Nugent.178
Coan, J. J.....182	Grey, Th. S. J. Co.....175	Lochner & Co..163	Pierce Co., F. O.190		Zinn, Julius....178
Cooke, Geo. H..178	Gude Bros. Co..178	Lord & Burnham Co.....192			Zvolanek, Ant. C.175
Cowee, W. J....180	Gunther Bros...183	McHutchison & Co.....166			

**FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 184, 185, 186, 187**



BURPEE'S EARLY OR WINTER-FLOWERING SPENCERS

The House of Burpee has long been recognized as "American Headquarters for Sweet Peas," and our introduction of these Fordhook Strains of Winter Flowering Spencers marks an era in commercial Sweet Pea growing.

The Novelties offered below, excepting Yarrowa, are the results of crosses made at our Fordhook Farms during the past seven seasons. All stocks are grown at our Floradale Farm, "The California Home of Sweet Peas."

FORDHOOK PINK AND WHITE:—A most popular Winter Flowering Spencer. A color that is always in demand, similar to the old Blanch Ferry. Bright rosy pink standard, wings almost pure white. The immense flowers measure 2½ inches in diameter and are almost perfect in form. A very early, free and continuous bloomer, awarded a Certificate of Merit at the Spring Show of the Pennsylvania Horticultural Society, Philadelphia, March, 1915, and the American Sweet Pea Society, San Francisco, June, 1916. ¼ oz., \$1.25; ½ oz., \$2.00; oz., \$3.50.

FORDHOOK PINK:—This is a distinct shade of pink suffused with lavender throughout. Flowers of large size, exquisitely wavy, produced in threes and fours on long stems. ¼ oz., 40c.; ½ oz., 75c.; oz., \$1.25; 1 lb., \$3.50; 1 ½ lb., \$6.25; 1 lb., \$12.70.

FORDHOOK ROSE:—Introduced by us in 1915. Flowers of largest size usually borne in threes and fours. A charming shade of rosy carmine. Awarded a Certificate of Merit at the International Show, New York, March, 1915, and the Spring Show of the Pennsylvania Horticultural Society, Philadelphia, March, 1915. ¼ oz., 50c.; ½ oz., 85c.; oz., \$1.50; ¼ lb., \$4.00; ½ lb., \$7.50; 1 lb., \$15.00.

YARROWA:—This magnificent Australian variety has proved its unusual merit with commercial growers in all parts of the country. It has an exceptional reputation as a sure-money maker. First exhibited by us at the great International Show in New York, March, 1914, and awarded a Certificate of Merit by the Pennsylvania Horticultural Society, March, 1915. Flowers exquisitely wavy, averaging 2½ inches in diameter, many of them being duplex or double. A bright rose pink with clear creamy base. ¼ oz., 35c.; ½ oz., 60c.; oz., \$1.00; 1 lb., \$2.75; 1 ½ lb., \$5.00; 1 lb., \$10.00.

Our Special Leaflet on Winter Flowering Sweet Peas free on application.

W. & A. BURPEE & CO.

Seed Growers

BURPEE BUILDINGS

PHILADELPHIA

OUR EXHIBIT OF GERMAN IRIS

Won FIRST PRIZE at the

*International Garden Club, Summer Show, Pelham Manor
June 1-4, 1916*

JOHN LEWIS CHILDS, INC.,
FLOWERFIELD L. I., N. Y.

CHRYSANTHEMUMS

From 2½-in. Pots

Thanksgiving Queen, Unaka, Dolly Dimple, Elise Papworth, Intensity, Golden Dome, John Shrimpton, Lynnwood Hall, Patty, Yellow Eaton, Unaka.

\$4.00 per 100, \$30.00 per 1000.

Autumn Glory, Ada Spaulding, Callington, Dr. Enguehard, Early Snow, Golden Glow, Geo. Kalb, Glory of the Pacific, H. W. Rieman, Money Maker, Maud Dean, Monrovia, Mrs. J. Jones, Miss Alice Byron, Mrs. Baer, Major Bonnaffon, Polly Rose, Pacific Supreme, Robt. Halliday, Smith's Advance, White Bonnaffon, W. H. Lincoln and Timothy Eaton.

\$3.00 per 100, \$25.00 per 1000.

WOOD BROS., FISHKILL, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ELMER D. SMITH & CO. CHRYSANTHEMUMS

Ask for Catalogue

ADRIAN, - - - MICH.

CHARLES H. TOTTY

CHRYSANTHEMUMS
MADISON, N. J.

LILY BULBS

RALPH M. WARD & CO.
71 MURRAY ST., NEW YORK

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.

WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.

ROOSEVELTS—\$5 per 100, \$40 per 1000.

BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

HOLLAND GROWN BULBS

HYACINTHS, TULIPS, NARCISSUS, ROSE BUSHES, ETC.

Write for information about the *Mammoth Auction Sales* that we will hold during the coming Fall Season, of Holland's latest and choicest varieties

THE MacNIFF HORTICULTURAL COMPANY

52, 54 and 56 Vesey Street The Largest Horticultural Auction Rooms in the World NEW YORK CITY

POT GROWN STRAWBERRY PLANTS

Splendid stock of vigorous young plants in leading varieties. Also Everbearing Superb and Progressive Plants ready now.

Prices: Standard varieties, 50c. a dozen, \$3.00 per 100, \$25.00 per 1000. Everbearing, 75c. per dozen, \$4.00 per 100.

WILFRID WHEELER

Telephone 154 W. Concord, Mass.

OLDEST AUCTION HOUSE IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co

42 Vesey St., New York

POINSETTIAS

July and August Shipment

True type, fine 2½ inch plants, shipped in paper pots, \$6.00 per 100, \$50.00 per 1000.

A. HENDERSON & CO.

211 N. State St. CHICAGO, ILL.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, - N. Y.

RAINBOW FREESIAS

in fine assortment of fancy shades, yellow, orange, lavender, pink, etc., the best and newest addition to Florists' cut flowers; we furnish so long as stocks last, at \$4.00 the 100; \$37.50 the 1000; usual terms.

PURITY FREESIAS

California grown, true stock, first size bulbs \$10 per 1000; Mammoth, scarce, \$12 per 1000.

AUGUST RÖLKER & SONS, 51 Barclay St. or NEW YORK
P. O. Box 752

TREES

Largest assortment in New England. Evergreens, deciduous trees both common and rarer varieties. Sturdy, choice stock that can be depended upon. Send for catalog and special trade prices.

The Bay State Nurseries

North Abington
Mass.

SHRUBS

This New England "and climate produces fine sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate.

REMEMBER!

If it's a Hardy Perennial or so called Old Fashion Flower worth growing, we have it in one shape and another the year round. We have the largest stock in this country, all made in America, and our prices

will average 75c. per doz., \$5.50 per 100.

Why say more here? Send for our Wholesale Price List of varieties and benefit from the opportunities this affords you. Address

PALISADES NURSERIES, Inc.

R. W. CLUCAS, Manager.

SPARKILL - - N. Y.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St. Weehawken Heights
P. O. No 1, Hoboken N. J.

ROSE STAKES

EXTRA STIFF No. 9 GALV. WIRE
4 feet—\$11.90 per 1000.

CARNATION SUPPORTS

\$18.00 per 1000 plants.

THE CARNATION SUPPORT CO., Cannersville, Ind.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

HATBORO, PA.

BOBBINK & ATKINS

Nurserymen, Florists
and Planters

RUTHERFORD, NEW JERSEY

ANGLIN & WALSH CO.

Williamsbridge, N. Y.

Send for Monthly Plant Bulletin

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY.
Small, medium and large sizes supplied.
Price list now ready.

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers in America.
BOX 415, DUNDEE, ILL.

New Early Flowering Giant Pansies Or Winter Blooming



An entirely new and distinct strain of Pansies. The main advantage of these new Pansies over all hitherto existing Pansies is the extreme earliness of flowering and its unusual hardiness, which enables them to withstand quite severe Winters, and to bloom right on into the Summer. Sown at the same time as other Pansies, they begin flowering the early part of March or as soon as the snow is off the ground, many times having four or five large flowers to a plant, when all other Pansies are only showing buds. The flowers are large, well formed and fragrant. They are highly recommended for Autumn planting on graves, and for very early bedding, as well as for early cut flowers.

14. **WINTER SUN.** Golden yellow with dark eye.
15. **ICE KING.** Silvery white with dark blue eye.
16. **CELESTIAL QUEEN.** Light or sky blue.
17. **CHARM OF MARCH.** Dark velvety blue.
18. **MIXED.** The above four colors with other shades and variations.

EACH COLOR SEPARATE OR MIXED.

500 seeds 50c., 1000 seeds \$1.00, 1/8 oz. \$2.00, 1/4 oz. \$3.75, 1 oz. \$15.00.

For list and price of other Kenilworth Pansy Seed see my ad of July 29.

FREE OFFER RAINBOW is a mixture of the most beautiful, gorgeous colors, blotched, striped, veined, margined, etc. With every \$1.00 worth of Pansy seed I will send, free, 1000 seeds of Rainbow and with other amounts in like proportion.

Chas. Frost
Kenilworth,
N. J.

FERNS IN FLATS

Eight Best Varieties—200 Clumps to a Flat

\$2.00 per flat; 10 or more flats, \$1.90 each

A. M. DAVENPORT, Watertown, Mass.

CONVENTION NUMBER

HORTICULTURE'S Annual S. A. F. Convention Number will be issued on August 19, 1916. Its Account of the Houston Proceedings will be eagerly looked for by thousands of readers.

YOUR ADVERTISEMENT

in this special issue will command the attention of

THE BEST TRADE

SEND COPY NOW

MAKE A STIR

LILY BULBS

Fall Shipment from Japan

Prices quoted F.O.B. New York, Chicago, Denver, San Francisco and London (Ont.)

Write for quotations stating quantity, variety and size required.

McHUTCHISON & CO. The Import House
95 Chambers St., New York

ORCHIDS

CONSERVATORY PLANTS
BEGONIAS

Lorraine, Cincinnati and Mrs. Peterson
JULIUS ROEHRS CO.
Rutherford, N. J.

ORCHIDS

Just received a grand importation of Lycaste Skinnerii. We also carry a choice line of established plants at all times. Write for prices now.

PAUL DE NAVE

ORCHID GROWER.

Tel. Connection. FALL RIVER, MASS.

A. N. Pierson, Inc.

CROMWELL, CONN.

Bedding Plants and Roses

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—*Lucy*

Cattleya gigas

These do well in a mixture of soft fibrous heat and sphagnum moss, intermixed. I have seen some growers successfully use nothing but moderately coarse osmunda fiber. Give the pans or baskets half their depth of clean crocks with a layer of charcoal on top and get the compost firm all around and between the roots. This orchid requires a little more warmth than most of the other species. Should any portion of the plant be unsteady tie it to a neat stick to hold it firm until the new roots get a grip. Be very careful about watering for four or five weeks, but when they are once re-established they will require an unstinted amount of water. All cattleyas delight in a liberal supply of pure air, but without cold draughts.

Repairing

Now is the time to do any repairing to houses, boilers, piping and glass. During the busy season of planting, cleaning up etc., this work cannot be attended to by the ordinary help and it would be more profitable to call in a tradesman than to have the work drag along until cold weather sets in. Where the putty is in very bad condition it is sometimes more profitable to lift out the glass, repair and repaint the sash bars and reset the glass. It being impossible to produce good stock in houses which are draughty and leaky, any repairs necessary to put them into good condition should be done while the wood is dry and the weather such that a few hours' exposure to the open air would not affect the general health of the plants. Ventilators should be re-adjusted and the machinery put into good working order, also the boilers.

Feeding Chrysanthemums

Where liquid manure is used with prudent care you will find a decided difference between the size and color of flowers where it is used and where it is not. It also gives that black green foliage and heavy stem which go with an ideal flower. It makes no difference how rich the soil was when the benches were filled, they always need feeding from the time the buds make their appearance, and until they begin to show color, when all stimulants should cease. Where the stock is in good condition you can make up some liquid by placing in a barrel of from 45 to 48 gallons of water a half a bushel of cow manure, or if sheep manure, half the quantity will be enough. There is no better fertilizing element than

liquid cow or sheep manure. Let it stand for a day or two so the water will be well impregnated before being applied. It is better for the average grower to start with one application a week and then increase it to twice a week and even to three times.

Geranium Cuttings

Where a big lot of geraniums are to be grown for next year start as early as now to take cuttings, thus giving the plants time to make up another good batch in September. Always trim the cuttings up well and cut below a leaf joint. After they are placed in sand give them a good soaking of water and break only the direct rays of the sun from them. They are better when kept slightly on the dry side until they begin to root as there is then less likelihood of their damping off. Give a thorough watering and then wait until they are dry before giving any more. Grow in a light airy house and by the middle of October you will be able to take a cutting from every one. In about a month they should be well rooted when they can be potted firmly into $2\frac{1}{2}$ inch pots, using any good loamy soil.

Winter Flowering Sweet Peas

Procure the best known varieties in white, pink, lavender and scarlet. Sweet peas have been so greatly improved of late that it is possible to have them do fairly well during the early winter now. Sweet peas to do their best should be in a house by themselves and have at least six feet headroom. They will need at least four feet between the rows and do not sow the seed too thick. Sod that was piled up last fall will make a very congenial soil to use. Make the compost rich by adding to every three loads of soil one load of well rotted cow manure and a pailful of bone dust. These plants like a syringing on all bright days, and an even amount of moisture at the roots.

Reminders

Get the propagating bed ready by renewing the drainage and sand.

Look after nephrolepis that are planted out on a bench. Pot the largest now so they will be well established for early sales.

Give plenty of ventilation to calceolarias, cinerarias, cyclamen, primulas, etc.

See that young herbaceous stock—seedlings or otherwise—have careful culture and attention.

Next Week:—Poinsettias; Primulas; Mignonette for Mid-Winter; Paper White Narcissi; Preparing Soil; Reminders.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached
by this paper is THE SORT OF PUBLI-
CITY THAT PAYS.

Campanulas

No genus of plants has been more useful in horticulture than the Campanulas, nor, in fact, are there many genera more universally distributed, there being some 240 species, and poor indeed is the garden that lacks at least one member of the beautiful Bell Flowers.

Glancing through the catalogues of the American nurserymen we note that there is a surprising lack of the most desirable varieties. Seedsmen quote quite a number which the nurserymen fail to list, but all together the material to be had in this country is very meager.

In mentioning the various species and their varieties we think first of those which are suitable for the flower garden proper. For such a situation *C. glomerata* is a very useful plant growing from 1 to 2 feet in height with beautiful blue flowers borne in terminal heads. *C. macrostyla*, dull purple, the largest-styled of the Bell-flowers is an annual, attaining a height of about 18 inches. In *C. Medium*, the Canterbury Bells, we have a moderately tall species, biennial, and bearing numerous campanulate purple flowers. There are numerous hybrids, even more valuable than the type and bearing white, blue and pink flowers. The variety *calycanthema*, "Cup and Saucers Bellflower," is perhaps one of the best. There is a variety, *C. Medium Wiegandii* with yellow foliage and blue flowers which makes a striking contrast, but this is more of a plant for the "curiosity garden." The species and its varieties may be propagated from seed sown in the open ground in early summer. Plants started in flats inside, in early March and transplanted to permanent locations in May will flower the first year, and may thus be used as annuals. The number and quality of the flowers will not be a good, however, as in the second year. Plants dug in before the first frost, and potted make fine house plants for the autumn, and may even be carried over to bloom the next spring.

Campanula isophylla is a very dwarf species, and suitable for use only near the front of an herbaceous border. The pale blue flowers are often an inch or more across and make a wonderful showing in sun or partial shade. There is a white form, *alba*, which is very free-flowering, and also a soft and woolly-leaved variety, known as *C. Mayii*. *C. isophylla* is equally good in the rock garden, hanging basket, or window box.

The majority of Campanulas are most suitable for rock work, among which might be mentioned *C. Allioni*, a perennial with nodding purple flowers, about an inch across, one to a stem. Here and there will be found a white one. There appears to be no hybrid of this species. *C. pulla*, one of the handsomest of rock plants, is a showy perennial with flowers of deep rich violet, in such numbers as to completely hide the foliage. A variety, *pulloides*, is even finer with flowers of glistening violet. It is supposed to be a hybrid between *C. pulla* and *C. turbinata*, but has kept the habit of the former. Another very dwarf species is *C. pusilla*, with small blue flowers, very freely produced. There is a white form, *alba*, and a greyish blue one called *Miss Willmott* which is probably the finest colored of all the Campanulas. No finer plant could

be grown in American gardens yet how few nurserymen list it.

Campanula carpatica, the well known Carpathian Harebell, should not be omitted in any garden. Among its hybrids may be mentioned *alba*, white; *Chad Valley Gem*, light blue China-cup, very pale blue; *Isabel*, rich purple, salver-shaped flowers of striking effect; *White Star*, very large pure white star shaped flowers; *Turbinata*, above mentioned, itself a desirable plant 6 in. in height with open rich blue flowers, while its variety *pallida* is a great improvement with flowers of delicate pale blue color.

Campanula garganica, blue with white centre is very effective massed in rockeries. Of this there are *alba*, white; and *hirsuta*, paler flowered, of trailing habit. *Campanula G. F. Wilson*, a hybrid between *C. pulla* and *C. carpatica* has proved its merit as a rock plant. It bears a profusion of violet blue flowers similar to *C. pulla*. *Portenschlagiana* is one of the best tufted species, with long racemes of blue purple flowers. Its variety *bavarica* is a larger and finer plant. Both are excellent subjects for a wall garden, although their hardiness is questionable in parts of this country.

For the wild garden one of the first plants is *C. lactiflora*, perennial, 3 ft., with delicate pale blue, or milk-white flowers. *C. allariaefolia* is equally good for the wild garden, with nodding white flowers, giving a splendid effect massed in colonies amongst other foliage. *C. persicifolia* is very fine for cutting and some of its varieties give as much as two or three feet of flower. Among the most desirable are "*Coupe d'Azur*" with large semi-double lavender blue flowers on stiff stems freely produced. *Grandiflora* is a good white and *Humosa* a distinct double lavender which lasts a long time when cut. *Moerheimi* is one of the finest semi-double whites.

Campanula pyramidalis, the Chimney Bell Flower makes one of the best pot plants as well as being suitable for the garden and shadier portions of the wild garden. It bears spikes of blue or white flowers in great profusion to a height of from three to five feet, or more.

We list below some of the most desirable varieties according to use, hoping that those which are named will suggest others which have been omitted. Of course it is possible that some of the plants are useful in more

VISITORS AT THE CORNELL ROSE TEST GARDENS

A Snapshot by Robert Pyle



Left to Right: Joseph Heacock, L. B. Pierce, S. S. Pennock, Prof. A. C. Beal, Mrs. Eugene Ely, Prof. F. L. Mulford, Prof. E. A. White, Benj. Hammond.

than one list, and in some cases these plants are given their place in each list, but I will confine the lists as much as possible, mentioning the plants in their best classification.

General Garden Use.

C. glomerata, 1-2 ft., blue; *C. macrostyla*, 1 1/2 ft., purple; *C. Medium* and vars., 2-3 ft., blue, pink and white; *C. isophylla*, 3-6 in., pale blue and white; *C. persicifolia* and vars., 2 1/2-4 ft., blue, lavender and white; *C. lactiflora*, 3 ft., milk-white; *C. rotundifolia*, 6-12 in., blue.

Rock Garden.

C. Allioni, 3 in., blue; *C. alpina*, 3-8 in., blue; *C. barbata*, 6-9 in., pale blue, nodding; *C. carpatica* and vars., 1 ft., blue and white; *C. Elatines*, 6 in., bluish purple; *C. fragilis*, 4 in., lavender; *C. garganica*, 3 in., blue and white; *C. G. F. Wilson*, 4 in., violet blue; *C. isophylla* 3-6 in., pale blue and white; *C. rotundifolia*, 6-12 in., blue; *C. pulla*, 3 in., deep rich violet; *C. pusilla*, 4-6 in., blue; *C. pulloides*, 3-5 in., deep glistening violet.

Herbaceous Border

C. carpatica, 1 ft., blue and white; *C. glomerata*, 1-2 ft., blue; *C. grandis*, 1-1 1/2 ft., blue; *C. medium* and vars., 2-3 ft., blue, pink and white; *C. persicifolia*, 2 1/2-4 ft., blue, lavender and white; *C. punctata*, 1 ft., white, spotted purplish; *C. pyramidalis*, 4-5 ft., blue and white; *C. rotundifolia*, 6-12 in., blue; *C. sarmatica*, 1-2 ft., pale blue; *C. Van Houttei*, 2 ft., indigo or violet.

Wild Garden.

C. alliariaefolia, 1 1/2-2 ft., white; *C. celtidifolia*, 2 1/2-6 ft., pale blue; *C. lactiflora*, 3 ft., milk-white; *C. macrantha*, 3E-4 ft., dark blue; *C. Rapunculoides*, 2-3 ft., lilac; *C. rotundifolia*, 6-12 in., blue; *C. persicifolia*, 2-3 ft., blue and white.

Window and Pot Culture.

C. Medium and vars., 2-3 ft., blue, pink and white; *C. Portenschlagiana*, 6 in., blue purple; *C. persicifolia*, 2 1/2-4 ft., blue, lavender and white; *C. pulla*, 3 in., deep rich violet; *C. pyramidalis*, 4-5 ft., blue and white.

Curiosities.

C. punctata, 1 ft., white spotted purplish; *C. macrostyla*, 1-2 ft., pale purple; *C. Zoysii*, 3-4 in., azure blue; *C. rotundifolia* var. *soldanellaeflora*, 6-12 in., blue.

Campanulas demand a good garden loam, in some cases free from all traces of lime, and do best in partial shade. They may be raised from seed sown in the open ground in May or from the greenhouse, transplanted in May. They should be lightly sown and very lightly covered, kept near the light at about 60 degrees, shading them during germination at mid-day. Watering should be carefully done, especially during dark and damp weather. As soon as the seedlings are large enough to handle they should be pricked off and when grown should be gradually hardened off before transplanting to the open ground. The choice varieties cannot be expected to come true from seed and the best way to handle them is by cuttings or division. Some varieties are not possible to divide and cuttings will have to be used to increase the stock. Cuttings and divisions should be made in early spring.

Winter covering should be provided to all Campanulas. South of New York this may consist merely of evergreen boughs, but north of that point it is well to provide an ample covering of leaves, at least two inches thick. All covering should be put on after the ground has frozen and should not be removed until there is little danger of the thermometer going below 20 at night. Removing the covering from plants too early in the spring is often the cause of loss of valuable species, for with the first warmth of spring they start into growth, only to be killed back by the first hard frost.

Hubert M. Canning.

Jamaica Plain, Mass.

Potentilla



POTENTILLA NEPALENSIS, MISS WILLMOTT.

Confronted with well grown specimens of the various new garden hybrids of potentillas the interest of the average plant lover is aroused at once. The foliage, in form digitately three to seven foliolate, in some instances resembling strawberry leaves in miniature, is ornamental and resistant. In habit of growth most species are spreading at the base, ascending at the ends and when fully developed appear in handsome loose bush shape requiring little or no staking. Adorned with their fair sized single or double blossoms in brilliant tints of red or golden yellow the desire is there to acquire and try a few and I am not aware of any instance where the purchase has been regretted. The bowers at no time appear in the profusion necessary for a real color mass effects but the flowering season mostly extends from June until frost.

Potentillas will be found very useful subjects for our perennial borders. The new hybrids of cinquefoils, the common name for potentillas, prefer the open sunny exposure. Their strong root system extending deep into the ground enables plantations to withstand excessive heat comparatively well. Not exacting as to soil, they thrive best in high slightly sandy ground. The new garden hybrids are not merely fillers but merit space especially in gardens where variety of material is appreciated. Of the species and varieties I have been growing so far *Potentilla nepalensis* "Miss Willmott" has proved one of the best. Reaching an average height of about 18-inches its many bright cerise single blossoms attract attention. The photograph our illustration was made from indicates the free-flowering habit. Other single varieties of value are *atrosanguinea*, rich crimson; *formosa*, rosy red, and *pyrendica* producing rich golden yellow blossoms. The double flowering hybrids appear in yellow, orange and red shades. Of named varieties I mention as desirable acquisitions, *Vulcan*, rich crimson and *William Rollison* bright vermilion.

For the benefit of rockgarden enthusiasts interested in the low creeping species I wish to call attention to *Potentilla ambigua* and *chrysocraspeda*, both flowering in June, producing dense sheets of color by legions of little yellow blossoms.

The herbaceous cinquefoils referred to in this note are easily raised from seed. The seedlings as a rule do not flower until the second year. Being very hardy, potentillas do not need much of winter protection except in northern states where leaf covering is advisable.

Glenside, Pa.

Richard Rothe

HORTICULTURE

VOL. XXIV

AUGUST 5, 1916

NO. 6

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 147 Summer Street, Boston, Mass.

Telephone, Oxford 292.
 WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Lilium regale (myriophyllum)	
NOTES ON CULTURE OF FLORISTS' STOCK—	
Cattleya gigas—Repairing—Feeding Chrysanthemums	
—Geranium Cuttings—Winter Flowering Sweet Peas	
—Reminders—John J. M. Farrell.....	167
CAMPANULAS—Hubert W. Canning.....	168
POTENTILLA—Richard Rothe—Illustrated.....	169
HORTICULTURAL EDUCATION—Dr. John H. Washburn	171
SEED TRADE—Holland Shipments Not Insured	
Against Loss by Delays—One Week's Imports—In	
Chicago—Seed Legislation—Notes.....	174
DURING RECESS—Lancaster County Florists' Club	
Picnic and Officers—Bound for Bar Harbor—Boston	
Gardeners' and Florists' Club Picnic—Illustrations	176-177
NEWS ITEMS FROM EVERYWHERE:	
Washington	173
Boston, Philadelphia, Chicago.....	176-177
New York.....	181
Pittsburgh	189
OF INTEREST TO RETAIL FLORISTS:	
New Flower Stores.....	178
Flowers by Telegraph.....	179
FLOWER MARKET REPORTS:	
Boston, Chicago, New York, Philadelphia, Pittsburgh,	
St. Louis, Washington.....	181
CLUBS AND SOCIETIES—Florists' Club of Philadel-	
phia—American Carnation Society—Texas State Flor-	
ists' Association—Coming Exhibitions—American As-	
sociation of Park Superintendents—Club and Society	
Notes	189
OBITUARY—Michael Donohue—Richard H. Dunbar—	
George Roney John Supper—John W. Lyon—Mrs.	
T. Kalish—William Thomas Logan.....	189
MISCELLANEOUS:	
Visitors at the Cornell Rose Test Garden, Illustration	168
In Houston, Texas—Illustration.....	173
A Texas Greeting.....	173
Rochester Flower Show.....	173
Catalogues Received.....	174
New Corporations—Business Troubles.....	174
New York's Big Explosion.....	183
Greenhouses Building or Contemplated.....	190
Patents Granted.....	190
Freaky Facts and Factless Freaks.....	190

from foreign sources. This is, of course, a local question with which we have nothing to do but it brings home the reflection that human nature is the same the world over, that government officials are guilty of the same stupidity wherever one goes and that London, after all, is not very much different from Washington.

All eyes
on Houston

While it is expected that the northern and eastern territory, from which the S. A. F. draws its largest membership, will be represented by a very small attendance at Houston, yet it is evident that throughout this section a lively interest attaches to the Convention in that city, now close at hand. That the occasion is expected to bring to a head projects and innovations which, if favored by the Convention, are destined to have a serious and far-reaching bearing upon the future policy and activities of the Society, is apparent from the very frequent discussions which one hears and the opinions expressed concerning the Convention's presumable attitude on a number of vital questions, some of which are slated for consideration at this meeting and some of which are not yet. Let us hope that whatever decisions are reached may prove to have been acts of wisdom, resulting in substantial and indisputable benefits from their operation. Otherwise it were better that the Society should "stand pat" for the time being, on the course it has followed and the methods which have gained for it, to say the least, a fair measure of success thus far. Nothing less than obvious necessity can ever justify "constitution tinkering."

The
trend of
events

Possibly the most ominous menace to the old order of things in the National Society is the unqualified success so far of the great National Flower Shows, not only financially and horticulturally, but as social rendezvous for the craft and a source of publicity and profitable business for the trade exhibitors. It seems to be in the minds of not a few energetic members of the Society that this big spring event is rapidly shaping itself to develop into an annual affair, ranking as the greatest American horticultural enterprise of the year, and that sooner or later the Society will be brought by force of circumstance to see that the peculiar conditions and needs which in the past made the mid-summer meetings desirable and popular have, as they declare, practically ceased to exist. So it seems to be a well settled conviction with many that the days of old-fashioned summer conventions and new-fashioned "convention gardens" are already numbered. Manifestly there is unrest within the Society's ranks. The almost revolutionary program cut out for Houston shows this; the talk of the street and of the market places shows it. The trend of events, the unforeseen exigencies that crop up, the accumulation of funds in the treasury and consequent financial pre-eminence of the S. A. F. among kindred organizations, furnishes a fresh stimulus and tends to foster new ambitions, all of which will press for a hearing—if not this year, very soon. The "Grand Old Society" having now lived the allotted span of a generation since its birth, these things are to be expected, and if it can be shown that they are in the line of progress and not merely for the sake of change or to gratify individual caprice they should and undoubtedly will prevail. But it is a safe proposition to hail "from Missouri" in all such matters and he is the true friend of the Society who will insist on being "shown."

Government Inconsistency

A burning question in the British horticultural journals at the present time is the prohibition of bulb imports from Holland and still allowing the Dutchmen the use of the parcel post by which they may send bulbs in small quantities indiscriminately to any address in the United Kingdom. It is not surprising that the British seed and bulb trade are "all het up" over this peculiar ruling which, while it prevents the facilities whereby their customers may get their supply

HORTICULTURAL EDUCATION

How to Make Good Farmers, Gardeners and Florists Out of the Submerged Tenth of the Great Cities.

(Dr. John H. Washburn before the Florists' Club of Philadelphia, July 11, 1916.)

Agricultural Education is supposed to cover a multitude of sins. Some believe it to be some "hocus pocus" that will relieve a farmer of the drudgery of life, that by virtue of this new and wonderful fetic, crops may be produced so abundantly and of such superior quality that they will sell themselves at a figure much higher than the reports in the advertising papers would even dare to suggest. This imaginary wealth will supply labor to the farmer so that all he has to do is direct what is to be done, and by virtue of this so-called agricultural education, financial success is always attained without undue labor or mental and financial consternation. All weather conditions are overcome by the knowledge of Agricultural Meteorology, the farmer can laugh at early frosts and late springs, when it rains and rains until the soil is unfit to work, although the crops should have been in three weeks since. This strange "hocus pocus"—in the minds of some will turn failure into success on the farm. It will relieve all insect pests, all fungus diseases of fruit, stem, root, foliage, settle all questions concerning soil nutrition and in most cases is expected to render equal service to the farmer engaged in any of the branches of animal husbandry, as well as those of agronomy and horticulture. We laugh at the fruitless search of Ponce de Leon, although that search brought to a curious world much accurate knowledge of large portions of a new continent, contributed materially to the knowledge of geography, giving helpful directions to hundreds who afterwards decided to settle on the country he discovered, making this search a lasting service to mankind. Still, he did not find the spring of eternal youth, and to him his time, money and energies were wasted. He was looking for something with purely selfish motives. Had it been found, it surely would have been a curse to posterity, and yet the virtues ascribed to the waters of this imaginary spring were not as wild and impossible a panacea as an Agricultural Education is supposed by many to give to the modern agriculturist.

Unpractical Scientists

We know that there are many professors of agriculture and horticulture, animal industry, floriculture, vegetable gardening, agronomy, plant pathology and other classified divisions of the great business of producing, developing and reproducing things that live, be it either animal or vegetable. Many of these gentlemen have spent a large portion of their lives studying questions relating to this great business; their discoveries and conclusions have been very helpful, directly and indirectly to the business of the farm. And yet many or most of these professors would fail from a business standpoint on the best farm that could be presented to them. If you should present to many of them the best greenhouse

that any of your practical men could select, all equipped for business and with money enough to conduct it until their stock was ready to market, before the end of the second year, financial embarrassment would begin. All this goes to prove that the average man is decidedly mortal and quite incapable of performing the labor of more than one intelligent, industrious man. It takes years of practical work and intelligent observation for a man to become proficient, automatic and safe in the ordinary demands of farm management. In so simple a thing as to properly water a variety of plants in a hothouse without their dampening off requires a manager who when he steps into the house will notice, without consciousness on his part, the temperature and humidity of the air, the condition of the soil, the weather outside, the pressure and consequent rate of ventilation. He knows how much coal he has on his furnace and the amount necessary to furnish steam to neutralize weather conditions. To understand and to be governed unconsciously by the fact that a sunny or cloudy day influences mightily all of the above conditions, requires a training extending over as much time as any of the courses given in our colleges demand, in order to be mastered by the student.

Their Place

These special scientific, capable workers on questions which have a practical application to the business and life of the farmer or horticulturist are often contributing a very important service to the practical man. They teach much of value on a very important yet special subject, and notwithstanding they may be just professors with no more knowledge of practical productive agriculture than a number of watch makers, yet they are a very important factor in the great subject or profession—Agricultural Education. Agricultural schools have proficient, practical men, who have had years of successful experience along their particular lines of work. These men oftentimes are as deficient in the higher branches of science as the scientist is in the practice of agriculture, yet both are of great value as teachers in a school. And as a rule men can't qualify along both advanced science and practical agriculture, because they have only one life-time in which to make this preparation. The very exceptional man—and there are a few who have had the opportunity with ability enough to be proficient in both lines—is such a rare product that he is immediately taken up by our larger institutions of learning and can be found only in too few of these schools.

The National Farm School

The National Farm School was established in 1897 by the Rev. Dr. Joseph Krauskopf for the purpose of educating Jewish boys from the con-

gested districts of our large city, to become farmers. It was his hope that they might lead many others away from these congested districts to live in the country where they could enjoy healthful living conditions and become producers. Later the school was opened to non-Jewish boys and for many years it has been a non-sectarian institution. Dr. Krauskopf has constantly put his energies into the development and support of the school which started with less than a half-dozen pupils and has developed into a large school where the practice and science of farming are taught to more than one hundred pupils. This school has endeavored to be primarily a school of practical agriculture with high school grade of instruction in the sciences as applied to its principal activities. By far the larger portion of our pupils come from the city. The city boy often looks with derision on the country youth as he expresses his unfamiliarity with the marvelous sights and activities when first observed during his early visit to the town. "Rube" is the term applied to this refreshing, unsophisticated mental attitude. And yet, no country boy in the city could be one-half as incapable, more hopelessly awkward, or so utterly helpless as is the city boy when he attempts for the first time to perform the duties of his country cousin: the two boys just mentioned will both depend upon their adaptability to environment to succeed.

Learning the Rudiments

At the National Farm School for the first year, the boy learns the language of farming and to do some of the more simple farm operations, including the using of all hand tools, driving, milking and gardening. The scholastic work for each year grades with that of a high school in science as applied to agricultural problems, with agricultural and horticultural science added. I have been surprised to realize how little a boy will learn of agricultural science during his first year. He does as well as any boy who has never lived on a farm or observed farm work. Our boys have hoed during the first summer over large areas, but few of them realize that the easiest and cheapest time to kill weeds is before they can see them. Most beginners will hoe only when the weeds are large enough to be seen and if an area has no visible weeds they will skip that, so that a few days after such work has been done, it will have to be repeated. We expect a boy at the farm school to learn during his first year about as much agriculture as the farm boy learns in the first dozen years of his life. When a boy enters our school some mischievous upperclassman will give him an order and he will most seriously take a can of gypsum or land plaster, a scrubbing brush and pail of water and brush the teeth of the horses. Some other fellow will walk a mile across the farm and back to the shop to procure a left-handed monkey wrench. The freshmen are instructed on all common farm practice; the parts of a harness and their use are explained; they take harness apart and put them together again, they have to be taught how to lead an animal, how to take them from the stall and how to properly tie horses, also the care of wagons, carts and carriages; in fact,

BASKETS BASKETS BASKETS

BUY YOUR FALL SUPPLIES NOW

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Don't Miss This Chance

Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

1129 Arch Street, PHILADELPHIA, PA.

they have an opportunity to do most of the important farm operations that are performed by hand. The second year is a review of the first year's work with added responsibility and instruction, depending upon the pupil's ability. In his second year they begin to use the team and the horse implements, carting out the manure, using the spreader, plowing, preparing the land with roller, spring tooth harrow, disk and cutaway, learning to use the smoothing and acme barrow and cultivator. They help in the hay field, to rake and to load, to pitch on and off and to stow away the hay.

The Second Year

All of the second year men spend at least one month in the dairy, where they cool and care for the milk as it comes from the barn. They ship it to the city, then separate any remaining over for cream. Butter and cottage cheese are also made from this unshipped milk. Some of this class are allowed to select work in the poultry department, which is well equipped with modern incubators and brooders. We hatch over 2,000 chickens each year and their brooding and care, include scientific feeding and caponizing gives good training to the student of poultry culture.

Our horticultural department has its portion of students. The preparation of land for the vegetable gardening and the nursery is quite like that of general farming, but the care of the nursery, the propagation of the plants and trees makes an interesting diversion of instruction that is profitable and lays the foundation of an elementary knowledge of landscape gardening. The care of the lawns and ornamental flower beds and hedges and slopes contribute to this knowledge. The three greenhouses give opportunity to have some knowledge of the of the production of cut flowers for the market. Their propagation, care and packing are studied not only from an educational standpoint but to train the boy for the business end of practical horticulture.

Finishing Off

The third and last year is a review of the two previous years with still more responsibility being placed on the boy. This year they are allowed

to choose upon what specialty they will spend the majority of their energies. Some select the horticulture department and stay there the whole year, others select from the other departments, not all choose specialties. These later are changed from one department to another once a month, that they may acquire a better idea of farm management. During this third year we endeavor to have the boys learn to do those operations not already taught; for example, using the corn planter and grain drill, caring for gasoline engines, handling fodder and silage cutter and feed mills. They carry out what is called project work or studies on agricultural topics in which they are specially interested. For example, they will try to raise the yield of milk and butter fat of a cow by judicious feeding. They make accurate measurements of feed and resulting product, to ascertain how far an increased grain ration pays. Similar projects are conducted with swine and poultry, also on pieces of land, to see the effect of different fertilizers on crops and quality of produce. One of the most fruitful sources of individual work is found in our boy's vegetable and flower gardens which each one is required to plant and care for. During the first year they must raise potatoes, cabbage, peas, beans, beets, corn, onions, squash, turnips, tomatoes and celery. The idea is if they only stay one year, on leaving they would have some definite knowledge of planting and caring for a garden. These individual gardens are altogether so that the boys can compare their own results with two or three scores of others around them which is a great incentive to do good gardening. The second year calls for the planting of salsify, lettuce, parsnips, carrots, parsley, radishes, chard, lima beans, cauliflower, brussels-sprouts and egg plants. While raising these he watches others who are beginners, growing the vegetables of the first year. He therefore receives review and advance gardening. Besides these eleven vegetables they are required to raise, and upon the culture of which is awarded a first and second prize for each class, they have the liberty to select a few other varieties that may be of special interest to each pupil. The last year

men raise cucumbers, leek, caraway, okra, martyma, dill, spinach, whitloof, horseradish, peppers and melons, with the privilege of a flower garden. I have dwelt at length upon our instructions in practical agriculture and said less about the academic work and class room instructions, because that is the spirit of the school. If during the growing season, it is to the advantage of the crops to occasionally drop for a few days the class room work to attend to planting or harvest, it is done. Otherwise we would be a school instead of a farm school.

The Outcome

If any of you gentlemen have ever had the excruciating pleasure of having a young graduate of our agriculture colleges who had no other knowledge of farming than what he learned at the college, work for you, you will appreciate why we keep our boys at farming seven hours a day from the middle of May until the first of October and three hours per day from October to May. Even then it is little enough and only those who are most earnest, observing and interested can acquire the knowledge of farming required to begin for themselves. Years of earnest book study in any or all institutions cannot teach men to farm. The knowledge can be acquired only by actual practice. Do you make farmers? This is the pertinent question. We do. We have made some most excellent farmers, men who have their farms and are doing well. One drawback about having more of our boys in farming for themselves has been, that in most cases they are poor boys. It takes capital, quite a large amount for a young man to have in order to go to farming for himself, and our boys have not that capital. It takes more capital for a boy to start business in general farming than in most branches of horticultural work. The cost of a farm is quite as much or more than that of a small area with a good greenhouse and the other equipment of tools, wagons, machinery, horses, cows, swine and poultry require much more capital. \$2500 is required to equip and stock a farm and buy the feed and grain until the same may be raised by the young farmer. We have a number of our graduates who are doing excellent

work as assistant managers, or in charge of dairies, cow barns, poultry plants and the like for other people. We have some who go to good places and are unsatisfactory. A study of these cases discloses the fact that the trouble is in the boy himself. When doing his farm labor he was not thinking about his work, not trying to learn the reasons why things are done. When working he was thinking too much of when the bell will ring. Such a man can never be anything but an eye servant until he changes his whole mental attitude towards life itself. Unfortunately men having this attitude of life are inclined to grow more unhappy as they advance in age.

Some Hindrances

Another hindrance in the development of a boy is that he takes himself too seriously. His difficulties to him seem exceptional; he can hardly realize that others have had the same experiences and overcome them by virtue of will power, energy and efficiency, which are all factors that are within a boy. He thinks other boys have help from outside instead of from qualities within his own self. As a rule the boy who takes up an agricultural course in order to do more and better work will succeed, but the fellow who is studying to find a method of doing less work will be disappointed and unsatisfactory.

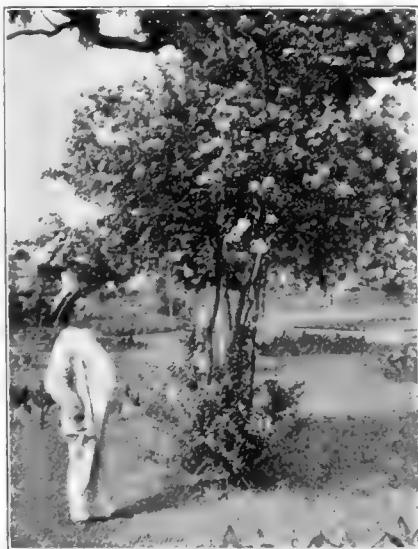
Another difficulty which schools experience in sending out their boys is their attitude towards others and towards their work. They often feel that they have been to school, are educated above their fellow workers, and if there is any work that is pleasanter and of a higher grade they think that their employer should give such work to them. The employer, however, always gives this special work to some tried, loyal employee whom he has had with him for a long time. Graduates fall into this error of taking themselves too seriously, feeling that their education lifts them above doing the general labor that is performed by the common laborer. They want at all times to have something which employs their special talents. In the work of a farm such conditions are not possible. When there is nothing but common labor to be performed, no school graduate should object; this gives deep dissatisfaction to both employee and employer.

It is most difficult to make labor popular with many young boys, to teach them to love labor for labor's sake, to have them realize that no honest labor is of itself degrading, and that it is the man who degrades labor instead of the labor degrading the man. There are many problems connected with agricultural schools and colleges that are yet in an experimental state of development. Too many people have a contempt of the past and are foolishly credulous of quick improvement, hopeful of discovering universal panaceas and confident of the success of every new and untried thing.

The largest element of chance or of error is the human equipment. The results of agricultural science have already afforded marvelous assistance to the farming interests of our country. When one realizes that it has taken five hundred million years to shape this earth and make it a fit habitation

for man, man himself must not be impatient if he is required to spend a few years of arduous toil and experiment that he may unlock the doors which so zealously guard Nature's secrets in order to more successfully employ the assistance of Nature in producing more abundantly from the earth food and raiment.

IN HOUSTON, TEXAS



SECRETARY JOHN YOUNG

In his newly acquired Palm Beach admiring a beautiful blooming Crepe Myrtle in the Convention Garden.

A TEXAS GREETING.

Editor HORTICULTURE:

Dear Sir:—Vice-President R. C. Kerr of the Society of American Florists and Ornamental Horticulturists has been doing yeoman service in getting up "pep" and interest in the coming convention at Houston, and while we are all very sure that Houston will prove an ideal host, I would like to remind all florists who contemplate attending the convention that Houston is in Texas and not Texas in Houston, and that the rest of us, located in different parts of the State, would also like to have a hand in entertaining you. It is only a matter of two hundred miles to San Antonio, with its missions, soldiers, chile and hot tamales; only a short distance to Austin, our state capitol, and although El Paso is not exactly in our near vicinity a trip to that thriving border town would be of extreme interest to everyone—incidentally it would be perfectly safe, although

POT GROWN STRAWBERRIES

Everbearing

30,000 PROGRESSIVE 10,000 SUPERB

200,000 Pot Plants

Now ready, of the very best varieties. Plants are guaranteed to be as fine as any grown. Write for varieties and prices.

ELIZABETH NURSERY COMPANY, .: ELIZABETH, N. J.

Mexico lies just on the other side of the Rio Grande. We believe that a general exodus to Texas will follow the convention, but we don't want you to concentrate in Houston. There is plenty of room for all, and the more of you who come the better we will like it.

The cotton fields are in full bloom, fruits of all kinds are here for the asking, the carloads of the biggest, finest most luscious watermelons that ever gladdened a darkey's heart are now moving—and mostly toward Houston. "Go thou and do likewise."

Sincerely yours,

F. W. HENSEL, JR.

Dept. of Horticulure.
College Station, Texas.

ROCHESTER FLOWER SHOW.

A Flower Show is to be held in connection with the annual exposition at Rochester, N. Y., September 4 to 9. It is to be along different lines from the one held last year, when some of the best growers in the country made exhibits, all of which were arranged in a beautiful garden effect. This year it has been decided to have a competitive exhibit and prizes are being offered. There are classes for amateurs as well as professionals, also a division in which both compete. Prize list may be obtained from Secretary Edgar F. Edwards, 309 Powers Building, Rochester, N. Y.

WASHINGTON, D. C.

Dr. B. T. Galloway, who for the past two years has been dean of the agricultural college at Cornell, is to return to Washington and will engage in special plant investigations including a study of plant diseases, in the bureau of plant industry, a bureau he was largely instrumental in developing.

J. J. Bickings, of Congress Heights, D. C., is in the Casualty Hospital recovering from a badly lacerated leg. While crossing the Anacostia bridge his wagon was struck by a car and he was thrown into the wheels of another vehicle, tearing his leg badly. About two weeks previous a woman chauffeur upset his wagon at 14th and I streets.

George Gouldman and Harry Kennelly motored last week to Atlantic City, N. J., where the former will spend his vacation, the latter going to Wildwood, a few miles distant. Frank C. Kiefer, with Gude Bros. Co., will spend a part of his vacation in Virginia and a part in Atlantic City, N. J. George C. Dalgleish has returned from a vacation with Mrs. Dalgleish at Colonial Beach.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

Holland Shipments Not Insured Against Loss by Delays.

The statement having been circulated by Dutch bulb drummers in this country that Holland insures against damage to plants and bulbs, caused by delays en route, Mr. W. Rolker, of New York, wrote to the principal Dutch insurance brokers in Rotterdam asking for information on this matter and in due time received the following reply under date of July 14, 1916:

"In prompt reply to yours of the 19th of June, received today, we are sorry to tell you that we must decline your request. The companies in this market do not feel much interested in insurances of this nature, so they prefer not to extend such to any foreign business. We regret that we cannot afford you an insurance on any conditions whatever."

We learn that Lloyds who did some underwriting for the Hollanders last season are so disgusted with the many claims put in that they will not write another similar policy this year. Such is in accordance with the views of our American insurance companies generally.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending July 21, were recorded as follows:

Bulbs—England, \$6; Hongkong, \$130. Plants—Italy, \$51; England, \$653; Guatemala, \$20; Panama, \$6; Colombia, \$1,172; Venezuela, \$832.

Red clover seed—Italy, \$95; Japan, \$4.

Other clover seed—France, \$6,793.

Grass seed—England, \$3,159.

Other seeds—Denmark, \$301; France, \$12; England, \$4,103; China, \$671; Morocco, \$715; Argentine, \$1,663; Hongkong, \$26; Italy, \$97; Netherlands, \$250.

Nitrate of potash—England, \$133.22.

Nitrate of soda—Chile, \$65.542.

Dried blood—Argentine, \$5,028.

Guano—Venezuela, \$4.

In Chicago.

Louis Bloom, one of the best known and best liked seed representatives on the road and who has had a great deal of practical experience in growing and marketing seed and produce, has taken over the eastern and southeastern territory for the Leonard Seed Co. of Chicago. This territory was formerly worked by Mr. Sutherland, who no longer represents the Leonard Seed Co. Mr. Bloom has been work-

ing other territory for the Leonard Seed Co. for many years and handling their larger jobbing trade.

The Leonard Seed Company have recently held a convention of traveling men, many of their men being called in and going over the trial grounds and fields of onion sets. It is the custom of the Leonard Seed Co. to take their men into their confidence and have them examine carefully all trials and growing crops so that they are well posted on conditions. In spite of the temperature being 100 in the shade, they tramped the onion set fields and proved themselves to be more able to stand hot weather than the militia on the border. It was probably the interesting crop conditions they were examining which prevented them from knowing how hot it really was. A. H. Smith, who was with them, states that it was one of the best meetings this company has ever held. Mr. Smith reports as a result of their inspection that they find the onion set acreage this year around Chicago very much reduced, and in addition to that, the crop was much damaged early in the season by wet weather and the maggots ate the sets quite badly, leaving spaces and skips in the rows, so that with the very best weather conditions from now until they are pulled, onion sets will be a very light crop and the prices should be correspondingly higher this season. The quality promises to be very good, as the last two or three weeks the weather has been dry and hot, which had a tendency to make good-keeping sets, and if there is not very much rain during the next ten days or two weeks, Chicago should harvest choice, small, good-keeping sets of the very finest quality, but the crop will be a small one.

Seed Legislation.

The provision for the free distribution of flower and vegetable seeds will probably be replaced in the Agricultural Appropriation Bill as suggested by the conferees and again a large sum of money will be used as "salve." The appropriation amounts to \$252,540. The item of \$3,000 to enable the Department of Agriculture to cooperate with horticultural organizations in the standardization of botanical names is in all probability lost for the conferees recommend that it be not adopted. A total of \$105,000 is provided for the enforcement of the insecticide act and \$28,700 for the discovery of seeds that are not up to standard under the "pure" seed regulations.

Notes.

The pea crop in Wisconsin is a very light one. Men now taking in peas at different growing stations throughout the state report the quality very good indeed. Peas are a better sample than they have been for two

years, but the yield has been cut short and there will be a short crop harvested.

We learn from our British exchanges that copious rains, and the prevalence of cold nights are keeping seed growers in an anxious frame of mind. Unless atmospheric change comes quickly some crops will be scarce, and not only the growers, but the buyers for big seed houses will have difficult problems to solve.

Beans in Michigan are being hurt now by the hot, dry weather, but up till this week the crop was growing well and the prospects good. If Michigan is fortunate in getting some good showers during the next few days, it will help the bean crop considerable, otherwise there will be much damage done, as beans are just beginning to bloom and the next week or ten days will tell the story in regard to the crop.

Lawn seed, No. 21957.—An American consular officer in France writes that a firm in his district desires to be placed in touch with American exporters of grass seed. Terms desired are: Seed subject to examination as to purity and thrift in a municipal laboratory before acceptance; payment to be made on receipt. Quotations should be in French currency and correspondence in French language.—*Bureau of Commerce Report.*

Reserved addresses may be obtained from the Bureau and its district offices. State opportunity number.

CATALOGUES RECEIVED.

C. S. Sheldon, Shady Shore Gardens, Oswego, N. Y.—American and Holland Grown Bulbs.

Royal Tottenham Nurseries, Dedemsvaat, Holland.—Wholesale Trade List of Hardy Perennials, Azaleas, Rhododendrons, Rock Plants, Aquatics, etc. A very complete and useful catalogue. McHutchison & Co., New York City, are the sole representatives for the United States and Canada.

BUSINESS TROUBLES.

Independence, Mo. — S. Bryson Ayres, voluntary petition in bankruptcy. Liabilities, \$4,300, assets, a very little personal property.

Newark, O.—The Miller Greenhouses, E. S. Brown, trustee, were sold at auction July 29th. The eight houses were all planted and the land and buildings were appraised at \$12,000.

NEW CORPORATIONS.

Portland, Me. — Jordan-Blanchard Nursery Co., capital stock, \$10,000. Incorporators, Alvin C. and Harold C. Jordan.

Plainfield, N. J.—American Bulb Co., to raise and deal in seeds, flowers and bulbs, capital stock, \$50,000. Incorporators, Wm. Newcorn, Pauline Botenstein and Elsie Davidson.

Knight & Struck Co. announce their removal to 258 Fifth avenue, New York City where they have acquired the entire fourth floor for stock and salesrooms.

"Seeds with a Lineage" All Varieties

Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

Thorburn's
BULBS AND SEEDS
For FLORISTS

Write for Quotations

J. M. THORBURN & CO.,
53 Barclay St., New York

MICHELL'S ...SEED
HOUSE

518 Market Street, PHILADELPHIA, PA.

My new Price List of

**WINTER-ORCHID-FLOWERING SWEET
PEA SEED**

Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

MIGNONETTE

IMPROVED ECLIPSE.

Superior to all others for winter blooming, exhibition, or cutting. Immense fragrant spikes 10 to 15 inches long. Greenhouse grown seed from a re-selected strain. Pkt. 25c., 1/16 oz. \$1.00. Catalogue upon application.

THOMAS J. GREY CO., Seedsmen
29 So. Market St., Boston, Mass.

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries

166 W. 23rd St., NEW YORK

**THE PRACTICAL BOOK
OF**

Outdoor Rose Growing

by
GEORGE C. THOMAS, JR.

Elaborately Illustrated with 96 Perfect Reproductions in Full Color of All Varieties of Roses, and a Few Half-tone Plates. Octavo, Handsome Cloth Binding, in a Slip Case. \$4.00 net. Postage Extra.

We have sold many copies of this sterling book. It is one of the best of recent horticultural publications. Every rose grower should possess a copy.

Order From

Horticulture Publishing Co.

BOSTON

TREES!!

We are prepared to do all kinds of forestry work, including the filling and sealing over of cavities, taking down and removing trees, trimming and thinning out large and small growth in woods and timber lands. We give careful attention to the shaping of young fruit trees, budding and dip-grafting. We combat all kinds of leaf-eating and sap-sucking insects by improved methods.

Safeguard your fruit trees and their foliage by spraying.

R. & J. FARQUHAR & CO.

BOSTON, MASS.

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.



SEEDS for the FLORIST

ASTERS QUEEN of the MARKET.

The best extra early variety, large, double flowers, on long stems, in colors: Crimson, Dark Blue, Light Blue, Rose Peach Blossom, White.

Trade Packet, 20c., Oz., 75c.

Sweet Peas, Cyclamen, Primulas, Lily of the Valley, from Our Own Cold Storage Plant.

Our Trade List Mailed on Application.

FOTTLER, FISKE, RAWSON CO., THE SEED STORE
Faneuil Hall Square BOSTON

NEW CROP SEEDS

PANSY SEED. Giant flowering florist mixture. American grown. (Best money can buy.) 50c. per tr. pkt., 1/4 oz. \$1.50, oz. \$5.00.

PANSY SEED SPECIAL. Greenhouse mixture for forcing; long-stemmed. \$1.00 per tr. pkt., 1/8 oz. \$1.50, 1/4 oz. \$2.50, oz. \$8.00.

PANSY SEED. Wm. Sim's Giant Exhibition Mixture. Finest strain known. Tr. pkt. \$1.00, 1/4 oz. \$3.00, oz. \$10.00.

SWEET PEAS. Zvolanek's Orchid Flowering in all varieties. I have his agency this season.

ROMAN J. IRWIN,

Plants, Cuttings, Bulbs, Seeds.
108 West 28th Street - New York.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter flowering Pink Snapdragons on the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.
PHILADELPHIA, PA.

LILIUM GIGANTEUM COLD STORAGE

Extra Selected Stock. Gladiolus for forcing. Nansu, Colvilled or large flowering type. Greenhouse Fertilizers. Ask for 1916 Seed Catalogue.

Joseph Breck & Sons Corp., Seedsmen
47-54 No. Market St., BOSTON, MASS.

When writing to advertisers kindly mention **HORTICULTURE**.



BOUND FOR BAR HARBOR.

The party from Boston en route to the Sweet Pea Exhibition

BOSTON.

Frank J. Walsh and Mrs. Walsh of Melrose are at home from a pleasant vacation of two weeks at Bradford, N. H.

C. L. Margot advertises that his flower store in Jamaica Plain is closed for the summer and will re-open on Sept. 5. Wise man.

Residents of Malden are complaining of the killing of many of the city shade trees by the fumes from acid gases emitted by the chemical factories.

The Eastern Chemical Co., of Jamaica Plain, are rapidly recovering from their recent loss by fire and expect that in a week or two their building will be completely repaired. They report business good.

William Carr of the Flower Exchange and Miss Helen Scorgie, daughter of Superintendent Scorgie of Mt. Auburn Cemetery were married on August 2, and have gone away together for a good time.

Our readers will be saddened to learn that the veteran Jackson Dawson is in a very critical condition. His illness which has been developing

steadily for sometime past has now reached a very serious stage and his family and friends are apprehensive of the result.

A terrific wind, hail and rain storm swept through some of the suburbs north of Boston last Wednesday afternoon doing much damage to field crops as well as breaking the glass in the greenhouses of many growers who live in that section. Wm. Sim, of Cliftondale, reports a loss of about \$1,000 to the glass in his greenhouses being sucked out by the wind while his gladioli in the field were damaged to a considerable extent, being blown down by the wind.

David Welch has returned from his vacation in northern New York during which he reported at Plattsburg as an honorary member of the 9th Mass. His side partner, Ed. Welch, has now taken his turn, and is being refreshed in the sea waves at Old Orchard, Me. These gentlemen have one of the most convenient and practical wholesale flower outfits we know of in their new place at 180 Devonshire street. Office arrangement is ideal and the ice box is a model of efficiency and economy.

NEWS ITEMS FROM**PHILADELPHIA.**

The Philadelphia Wholesale Cut Flower Exchange (W. A. Leonard and J. M. Deutscher) have opened a new store at 1615 Ranstead street.

They are telling a little joke just now on the president of the American Rose Society. Recently he sent out four hundred personal letters asking co-operation in getting new members. He looked each letter over and signed it himself—very, very careful indeed until about the last fifty, when he had to hustle to catch a train. Next day he had the new experience of opening a letter addressed to himself and signed by himself! The infallible was caught napping for once.

We have had a pleasant visit from John Farquhar, of Boston, and his nursery manager, Mr. VanLeeuwen, the past few days. Messrs. Dreer, Michell,



LANCASTER COUNTY

Craig, Heacock and other leading sellers here have pleasant recollections; and outside of business, the handshakings and heart-to-heart talks have been numerous, enthusiastic and eloquent. It was a very pleasant ripple in our mid-summer dullness. President Pennock did not neglect the opportunity to get them on his side—for that "bee in his bonnet," about which we will tell you later.



GARDENERS' AND FLORISTS' CLUB

EVERYWHERE

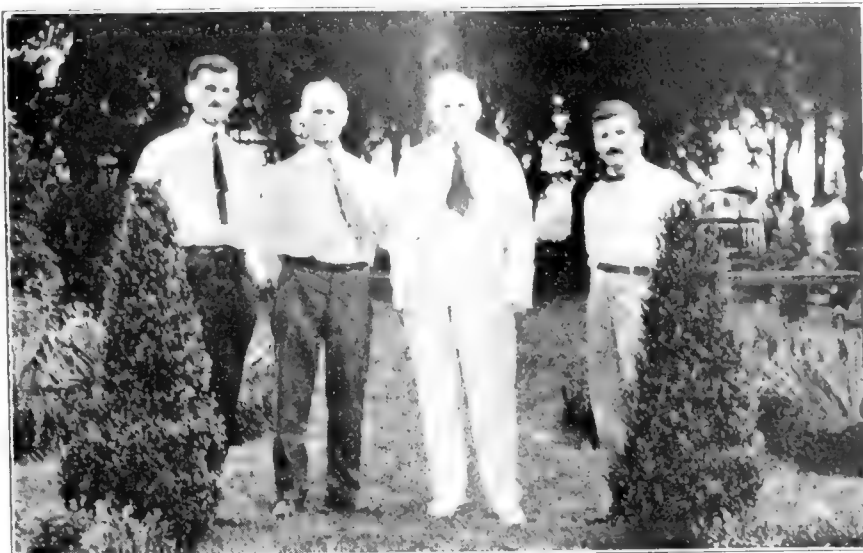
CHICAGO.

Harry Conn, now in charge of the Harry Rowe Co.'s store has the sympathy of his friends in the loss of his wife.

The little son of Timothy Courtney, superintendent of the Foley Greenhouse Manufacturing Co., had the misfortune to fall and break his elbow on July 27th.

Mr. and Mrs. W. W. Adams of Rush St. and Bellevue Pl. are vacationing at Macatawa, Mich. Miss O. A. Tonner and Miss Nettie Parker are in northern Wisconsin.

C. A. Samuelson is taking his vacation on his apple orchard in Idaho from which place he writes friends that crops are looking fine and there is no lack of water for irrigating.



OFFICERS OF THE LANCASTER COUNTY FLORISTS' CLUB.

Reading Left to Right: Harry K. Rohrer, Treasurer; Elmer Weaver, Vice President; H. A. Schroyer, President; Frank Kohr, Secretary.



CLUB PICNIC.

Clara Burkhardt of the Poehlmann Bros. supply department returned from two weeks in Wisconsin, which favorite state for vacationists she reports as too hot and dry this year for real pleasure.

Sam Seligman's presence in Chicago and his recent severing of relations with the New York house he has so long represented, give color to the per-

sistent rumor of a new wholesale house in Chicago.

The University of Wisconsin is erecting a greenhouse for its Bureau of Plant Industry, Haven Metcalf, pathologist. The J. C. Moninger Co. has the work underway and a new all steel house, 28 x 70 feet, was completed August 1st.

Edw. Amerpohl says his home town, Janesville, Wis., which is a tobacco raising center, has had an unusual experience this summer. Since planting time one-half the place has had sufficient rain to be in splendid condition, while the other half has not had a drop of water all summer.

Cool looking windows of ferns and water lilies were very inviting in the down town district during the extreme weather of the past week. Passers-by would linger beside these windows and the unusual trade through July may be partly due to the extra effort to keep the windows looking cool and refreshing.

James P. Foley, secretary of the Foley Greenhouse Manufacturing Co., spent Sunday at the beach, where he found the water delightfully cool. The

next day he discovered the sun had been busy too, and for several days has not been able to visit the office. This firm is just completing four pieces of work, including the George Weiland range.

William J. Smyth, at 31st street and Michigan avenue, has just renewed his lease at an advanced rental, and the store is undergoing marked changes, which, when completed, will give the largest window space among Chicago's flower stores—75 feet on Michigan avenue and 40 feet on 31st street—with entrance at the corner. It will present an impressive sight to passersby on that famous thoroughfare. The windows will not be separated from the store proper, but will be a part of the salesroom and fitted so as to show plants and flowers to the best possible advantage. Mr. Smyth says that in spite of the torn up condition of the store he has found this season the best summer business in 25 years, and has not had time to leave the city for his vacation. Mrs. Smyth and daughter, Florence, who have been in California for six weeks, leave for home a few days hence.



BOSTON ON THEIR ANNUAL PICNIC.

For Account of Games, etc., See Issue of Last Week.

ALEX. McCONNELL611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Cost of Cabling Foreign Deliveries Must be prepaid

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

For KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for New York. Write or Phone to

MAX SCHLING

22 West 59th Street, Adjoining Plaza Hotel

Best Florists in the States as References.

EUROPEAN ORDERS EXECUTED.
Members of the Florists' Telegraph Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO**DAVID CLARKE'S SONS**

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, New York

Telephone 1552-1553 Columbus

YOUNG & NUGENT42 West 28 Street
New York

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

WORCESTER, MASS.

Randall's Flower Shop

HARRY L. RANDALL, Proprietor.

Member Florists Telegraph Delivery Association

Of Interest to Retail Florists

NEW FLOWER STORES.

Des Moines, Ia.—The Rosary, Alfred G. Lozier, prop.

Reading, Pa.—Harry A. Byder, 46 North 9th street.

San Francisco, Cal.—A. F. Lundberg, removed to 1440 Polk street.

Providence, R. I.—Frazier, the Florist, Elmwood and Potter avenues.

VISITORS' REGISTER.

Pittsburgh—A. M. Ford, Philadelphia.

Cleveland, O.—Col. W. W. Castle, Boston.

New York—J. K. M. L. Farquhar, Boston.

Boston—Robert Kift, Philadelphia;
Joseph J. Lane, of The Garden Magazine, New York; Leonard Barron and Mrs. Barron, Garden City, N. Y.

Philadelphia—D. J. Pappas, New York City; K. P. Baum, Knoxville, Tenn.; N. J. Hayman, Clarksburg, W. Va.; J. K. L. M. Farquhar and John Van Leeuwen, Boston, Mass.

Washington, D. C.—Lena W. McCoy, Seattle, Wash.; J. C. Sternhauser, Pittsburg, Kan.; Mr. and Mrs. K. P. Baum, Knoxville, Tenn.; Mr. and Mrs. George Asmus, and children, Chicago; Alfred C. Horst and Otto Horst, Birmingham, Ala.

Chicago—Mr. and Mrs. Geo. Hampton, Phila., Pa.; Edward O'Neil, Columbus, Ohio; Sam Seligman, Phila., Pa.; Alexander Milton and Julius Dilloff, New York; John Furrow, Guthrie, Okla.; T. C. Weber, St. Louis, Mo.; Mrs. Kirby Boertsier, Little Rock, Ark.; Albert Docksey, Detroit, Mich.; Edward Amerpohl, Janesville, Wis.; Miss Ella Kaber and Miss Malm, La Porte, Ind.

Harold Chadwick, florist, of Houlton, Me., was married on August 2nd to Miss Nell Johnson, at Toledo, Ohio.

WHY

Ginn The Florist ?
4 Park St., Boston, Mass.

**Because Satisfaction
Is Guaranteed**

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor.

HIGH GRADE PLANTS

For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.

JOHN BREITMEYER'S SONSCor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery Association.



GUDE BROS CO
1214 F ST NW
WASHINGTON DC

GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

**IN THE
National Capital**

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 506.

Long Dist. Bell Phone 2780

Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEWPORT, R. I.

145 Bellevue Avenue.

WE GUARANTEE SATISFACTION

MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Points

CLEVELAND
A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1836 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

FLOWERS BY TELEGRAPH
SAN FRANCISCO
CALIFORNIA
Pelicano, Rossi & Co.
123 KEARNY ST.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association.

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State
St.

Albany, N. Y.—The Rosery, 23 Steuben
St.

Albany, N. Y.—William C. Gloeckner, 97
State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont
St.

Boston—Zinn the Florist, 4 Park St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Fetters Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

New London, Conn.—Reuter's.

Newport, R. I.—A. T. Bunyard, 145 Belle-
vue Ave.

New York—J. H. Small & Sons, 505 Madl-
son Ave., at 52d St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

San Francisco—Pelicano, Rossi & Co., 123
Kearny St.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

Penn The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 Tremont St., BOSTON

REUTER'S Members Florists
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between

New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of

TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

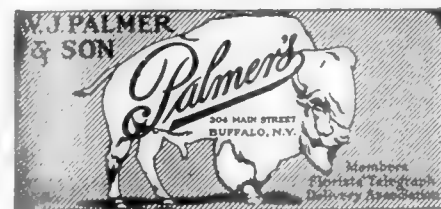
JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.



Now Is The Time To Put
In Next Season's Supply of
SPHAGNUM MOSS

Six 5 Bbl. Bales for \$10.00

This is the biggest value in Moss you can buy. Our Moss is clean and fresh and each bale is wrapped.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S
Wholesale & Commission Florists
FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964—1965

EDWARD REID
WHOLESALE FLORIST
1619 - 21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER
122 West 25th St., New York
Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

40,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists
RICHMOND, IND.

Please mention Horticulture when writing.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**

WHOLESALE COMMISSION FLORISTS
Consignments Solicited

Hardy Fancy Fern Our Specialty
264 RANDOLPH ST., DETROIT, MICH.

Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE

Plantsmen and Florists
37 and 39 West 28th St., NEW YORK

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut
Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

226 DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON August 3		ST. LOUIS July 31		PHILA. July 31	
Roses						
Am. Beauty, Special	20.00	to 25.00	15.00	to 25.00	15.00	to 25.00
" " Fancy and Extra	10.00	to 15.00	8.00	to 10.00	10.00	to 12.00
" " No. 1	1.00	to 6.00	1.00	to 5.00	2.00	to 8.00
Russell, Hadley	2.00	to 10.00	5.00	to 10.00	2.00	to 15.00
Killarney, Richmond, Hillingdon, Ward, Extra	4.00	to 6.00	5.00	to 8.00	4.00	to 6.00
" " Ordinary	.50	to 2.00	3.00	to 4.00	.50	to 3.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 6.00	.....	to	4.00	to 6.00
" " Ordinary	.50	to 2.00	.....	to .....	.50	to 3.00
Ophelia, Mock, Sunburst, Extra	3.00	to 6.00	5.00	to 8.00	4.00	to 6.00
" " Ordinary	1.00	to 2.00	2.00	to 3.00	1.00	to 3.00
Carnations, Fancy	.....	to	2.00	to 3.00	.....	to
" " Ordinary	1.00	to 1.50	.75	to 1.00	1.00	to 1.50
Cattleyas	40.00	to 50.00	30.00	to 40.00	40.00	to 50.00
Dendrobium formosum	.....	to 25.00	.....	to .....	.....	to
Lilies	6.00	to 8.00	10.00	to 12.50	8.00	to 10.00
Lily of the Valley	3.00	to 4.00	4.00	to 5.00	3.00	to 5.00
Snapeadragon	1.00	to 2.00	3.00	to 4.00	.50	to 1.50
Gladioli	2.00	to 4.00	3.00	to 4.00	1.50	to 4.00
Asters	.75	to 2.00	.....	to .....	.35	to 2.00
Sweet Peas	.15	to .75	.15	to .25	.25	to .50
Gardenias	20.00	to 25.00	.....	to	12.00	to 15.00
Adiantum	.....	to 1.00	1.00	to 1.25	.75	to 1.00
Smilax	10.00	to 12.00	12.00	to 15.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	20.00	to 25.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co.
Wholesale Florists

493 WASHINGTON STREET - - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

BOSTON Production is now at its lowest limit and benches are bare in the wholesale marts excepting for a moderate showing of gladioli and asters and a rather stagnant crop of longiflorum lilies. Roses are very few and quality is not worth mentioning. Asters are arriving slowly. Of these and gladioli it is expected that a few days later will see a surplus. Several very large mortuary occasions are making an insistent call just at present for which the white lancifolium lilies are well adapted and are finding a good sale as a result.

CHICAGO Trade is very good and both local and outside business is using up every bit of good stock that is coming into this market. The supply has been greatly curtailed by the protracted hot weather which covered all of July and at this writing there are far more inferior flowers than good ones. The first day of August found the wholesale houses thronged with buyers, anxious to get their share of whatever choice stock came in. Carnations nearly dropped out of the race last week. Sweet peas did the same some time ago. Roses are showing the effect of a high temperature by being soft and somewhat faded in color but, even so, they sell readily and are no worse than usual in midsummer. Of outdoor flowers the supply has been decidedly cut down. Asters run all the way from the few first-class ones to the many of very inferior grade. Some fine spikes of gladioli are offered and sell quickly.

NEW YORK The present condition in this market is not different from that of corresponding date heretofore. Growers have largely ceased to send in daily shipments—some contenting themselves with a weekly or semi-weekly plunge, and others shut down completely. The stock that does come to market has little to commend it. Roses are very flimsy, carnations are rags and gladioli are entirely too many. Sweet peas have disappeared. Cattleyas have also gone almost out of sight and prices of same have followed suit. If you want cattleyas now and must have them you'll have to talk big money.

PHILADELPHIA The hot weather has taken all the ambition out of both buyers and sellers here. The latter seemed willing enough to take what little came their way unasked, but as for getting up and hustling for it—nix. Still the situation is no worse than usual for this time of year and is just about what might be expected. Roses are not very plentiful and real good ones are very scarce indeed. Carnations are hardly worth mentioning. What few are coming in are very poor quality. Asters continue to improve a little, but the really fine sorts are not here yet. The best flowers on the market at present are the gladioli. They are very fine and more plentiful and about the only bright and cheering feature in a hot, muggy and gloomy situation.

PITTSBURGH Business continues unchanged with the demand more than balancing the supply. The greatest



ASTERS

In all colors, white particularly plentiful, splendid for funeral work,

The mid-season varieties are commencing to come in, much better quality than the early ones.

\$1, \$2 and \$3 per 100

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of **PHILADELPHIA**

NEW YORK **PHILADELPHIA**
117 W. 28th St. 1608-1620 Ludlow St.

BALTIMORE **WASHINGTON**
Franklin & St. Paul Sts. 1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI July 31		CHICAGO July 31		BUFFALO July 31		PITTSBURG July 24	
Roses								
Am. Beauty, Special.....	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00
" " Fancy and Extra.....	10.00	to 15.00	15.00	to 20.00	15.00	to 20.00	18.50	to 15.00
" " No. 1.....	6.00	to 10.00	10.00	to 15.00	8.00	to 12.00	4.00	to 10.00
Russell, Hadley.....	6.00	to 10.00	5.00	to 20.00	.....	to .....	.....	to
Killarney, Richm'd, Hill'don, Ward	4.00	to 6.00	5.00	to 8.00	5.00	to 6.00	6.00	to 10.00
" " Ord.	3.00	to 4.00	2.00	to 5.00	3.00	to 4.00	2.00	to 4.00
Arenburg, Radiance, Taft, Key, Ex.	4.00	to 6.00	5.00	to 8.00	.....	to 6.00	6.00	to 10.00
" " Ord.	3.00	to 4.00	2.00	to 9.00	3.00	to 4.00	2.00	to 4.00
Ophelia, Mock, Sunburst, Extra ...	4.00	to 6.00	5.00	to 8.00	5.00	to 6.00	8.00	to 15.00
" " Ordinary	3.00	to 4.00	2.00	to 5.00	3.00	to 4.00	4.00	to 6.00
Carnations, Fancy.....	1.50	to 2.00	2.00	to 3.00	1.50	to 2.00	.....	to 2.00
" " Ordinary.....	.....	to 1.00	1.00	to 2.00	1.00	to 1.50	.....	to 1.00
Cattleyas.....	50.00	to 60.00	40.00	to 50.00	50.00	to 60.00	35.00	to 40.00
Dendrobium formosum.....	.....	to .....	.....	to .....	.....	to .....	.....	to
Lilies.....	8.00	to 10.00	8.00	to 10.00	8.00	to 10.00	6.00	to 10.00
Lily of the Valley.....	5.00	to 6.00	3.00	to 5.00	4.00	to 6.00	.....	to
Snapdragon.....	4.00	to 6.00	.....	to	2.00	to 3.00	2.00	to 3.00
Gladioli.....	4.00	to 6.00	2.00	to 5.00	3.00	to 4.00	2.00	to 3.00
Asters.....	2.00	to 3.00	1.00	to 4.00	1.00	to 2.00	.5c	to 2.00
Sweet Peas.....	.....	to .....	.25	to 1.00	.25	to .75	.....	to
Gardenias.....	.....	to .....	.....	to	25.00	to 30.00	.....	to
Adiantum.....	.....	to 1.00	1.00	to 1.25	1.00	to 1.25	.75	to 1.25
Smilax.....	18.50	to 15.00	12.00	to 15.00	15.00	to 20.00	12.50	to 15.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 35.00	25.00	to 30.00	35.00	to 50.00	30.00	to 40.00

call is for asters, which are not nearly enough to supply the wants of the retail trade. Lilies are sufficient and good. On the other hand roses and carnations are very scarce, and inferior at that.

ST. LOUIS Dry weather and extreme heat has caused a shortage in outdoor stock, which is always in large demand in this market, but the buyers have been showing little activity of late. Roses and carnations are showing the effects of the heat wave for the past three weeks, as in fact all other stock has. Gladioli are in steady demand and are used in all kinds of work. Shasta daisies and lilies have sold well all week. Lily of the valley is scarce.

WASHINGTON There has been a scarcity of good roses and more white ones could have been used last week. Carnations are doing very well considering the time of year. The market is full of gladioli. The aster crop this year will be something of a failure on account of the continued wet weather, and dahlias also have been hard hit by the rotting of the roots. Lily of the valley is very poor and undesirable.

NEW YORK.

The New York delegation to the S. A. F. Convention at Houston are hopeful of securing the 1917 convention for their city. The last convention in New York was sixteen years ago. The late Edmund M. Wood, of Natick, Mass., was president that year.

Crates of Holland rose bushes, fifty bushes to a crate, were washed ashore by dozens at Long Beach, L. I., last week and everybody turned out to salvage this novel flotsam of the sea. It is said that the crates had been dumped from a ship that had been unable to land them, on account of quarantine restrictions.

The party from New York—convention bound—will start next Wednesday, August 9, on the S. S. Momus of the So. Pac. S. S. Line arriving at New Orleans, Monday, August 14. So, if you wish to join them, hurry up and notify J. R. Lewis, secretary of the N. Y. Florists' Club Transportation Committee, 448 West 37th street, New York City.

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street

Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5325, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE (608) / (609) MADISON SQ., NEW YORK

JOHN YOUNG & CO.
WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.
Tel. (1593) / (5893) Mad. Sq. 119 W. 28 St., New York

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 8870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.
Wholesale Commission
READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE 2281 / 2089 FARRAGUT 131 West 28th St., NEW YORK CITY

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS
GARDENIAS, DAISIES, ROSES, CARNATIONS

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 7062 Madison

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones 1664 / 1665 Madison Square

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only**MISCELLANEOUS**

	Last Half of Week ending July 29 1916		First Half of Week beginning July 31 1916	
Cattleyas	50.00	to 75.00	75.00	to 100.00
Dendrobium formosum	20.00	to 25.00	20.00	to 25.00
Lilies	2.00	to 4.00	5.00	to 6.00
Lily of the Valley	1.00	to 3.00	2.00	to 4.00
Snagdragon	.50	to 2.00	.50	to 2.00
Gladioli	1.00	to 2.00	1.00	to 2.00
Asters	.35	to 1.00	.50	to 1.00
Sweet Peas	.15	to .50	.15	to .50
Gardenias	4.00	to 12.00	4.00	to 12.00
Adiantum	.50	to .75	.25	to .50
Smilax	6.00	to 8.00	6.00	to 8.00
Asparagus Plumosus, & Spreng (100 bunches)	10.00	to 15.00	10.00	to 15.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—5532-5533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for do-
ing our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK
Phones 2036, 2037, 558 Farragut

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797-798-799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality.

114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK**WHOLESALE FLORISTS**

55-57 West 26th Street

Telephones, 13-8510 Madison Square

MAURICE L. GLASS, Treasurer

Consignments Solicited

J. H. SMALL & SONS

FLORISTS NEW YORK and WASHINGTON

Announce the removal of their New York store to

505 MADISON AVENUE, AT 52d STREET

WASHINGTON, D. C.
15th and H Streets

Floral and Landscape Work

NEW YORK—Waldorf-Astoria
and 505 Madison Ave.

NEW YORK'S BIG EXPLOSION.

The news of the frightful blow-up on Black Tom Island in New York harbor has been widely disseminated by the newspapers and no general description is called for now. But our readers will be interested to learn of its effect on greenhouse glass and store fronts in New York and surrounding territory. Fortunately the damage in this respect, so far as we have been informed, was light, comparatively, although no doubt there are many sufferers whose loss has not been reported to us. In the uptown district the only damage of which we are apprised was the total destruction of the large front windows of Walter F. Sheridan and P. J. Smith on West 28th street and the loss of one side of A. H. Langjahr's window nearly opposite. Downtown the damage was much more severe. Cordlandt street was badly wrecked and this included the large plate glass show windows of Peter Henderson & Co. The only damage on Vesey street was to a fanlight in MacNiff's, but Barclay street was hard hit, Stumpp & Walter Co. losing their big plate glass windows and August Rolker & Sons having two panes in their office windows blown out clean. On Chambers street, Burnett Bros. lost their entire show window and A. T. Boddington escaped with the smashing of some skylights.

The heaviest damage was done in Jersey City. Peter Henderson & Co. had about 750 lights of glass broken in their greenhouses. Robert Leach on Garfield avenue, who is nearest to the scene of the explosion, suffered an estimated damage of from \$1,500 to \$2,000 in broken glass. William Keyser on Randolph avenue, suffered to the extent of about \$500. Patrick O'Mara, who resides in Jersey City, had nearly all the windows in his house shattered and the front door wrenched from its hinges and broken. W. G. Elliott, Monticello avenue, had his flower store windows blown out. All are grateful that none were cut by flying glass. All in all, the contingent damage was very light, considering the tremendous force of the explosion, the fact that the windows were sucked out rather than blown in, being largely accountable for the trifling injury to window contents, etc.

We learn in a general way that many flower store windows other than those we have mentioned, in Jersey City, Hoboken, Brooklyn and other outlying communities were broken, but details are lacking.

When New York does anything she

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending July 29 1916		First Half of Week beginning July 31 1916	
American Beauty, Special	15.00	to 20.00	8.00	to 25.00
" " Fancy and Extra	6.00	to 12.00	5.00	to 12.00
" " No. 1	2.00	to 4.00	3.00	to 8.00
Russell, Hadley	2.00	to 8.00	1.00	to 8.00
Killarney, Richmond, Hillingdon, Ward, Extra	3.00	to 4.00	3.00	to 4.00
Ordinary .....	.50	to 1.00	.50	to 1.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 6.00	3.00	to 8.00
Ordinary .....	.50	to 2.00	.50	to 2.00
Ophelia, Mock, Sunburst, Extra	3.00	to 5.00	3.00	to 4.00
Ordinary .....	.50	to 2.00	.50	to 2.00
Carnations, Fancy .....	.25	to 1.00	.25	to 1.00
Ordinary .....	.25	to 1.00	.25	to 1.00

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street
167 & 3058 Farragut NEW YORK

Established 1888

Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists
110 West 28th St., New York
We Solicit Consignments of New
England Grown Novelties.

J. J. COAN, INC.

115 WEST 25TH STREET
New York
Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST
Wholesale and Commission Florists
32 Otis Street, 2 Winthrop Square
BOSTON, MASS.
Telephone 2618-2617-2616, Main.

does it real big. Evidently she is bound to keep in the lime light at any cost.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK
Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of

Good Stock Solicited

PERCY W. RICHTER, Mgr., NEW YORK
111 W. 28th Street

HERMAN WEISS

Wholesale Florist

Experienced, Progressive and can handle
shipments of growers' product
satisfactorily.

106 West 28th St., NEW YORK
Tel. Farragut 3066.

STRAIGHT WHOLESALE ONLY

FRANK MILLANG

CUT FLOWERS

55-57 W. 26th St., NEW YORK
NO DESIGNS MADE UP

Excelsior Springs, Mo.—Messrs. Poland & Hammond have leased L. R. Bever's greenhouses.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-LINGDALE GREENHOUSES, Collingdale, Pa.

AUCTION SALES

The MacNiff Horticultural Co.,
New York City.
For page see List of Advertisers.

Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price list.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

BEGONIAS.

Mrs. J. A. Peterson (New), 2 1/4 in. pots,
\$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda,
N. Y.

"King Ideal" Boiler.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Hitchings & Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made.
Write for list. HOLTON & HUNKEL CO.,
Milwaukee, Wis.

BOX TREES

BOX TREES—Standards, Pyramids and
Bush. Price list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
Lily Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Forcing Bulbs and Plants.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Barnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

The MacNiff Horticultural Co.,
Holland Grown Bulbs.
New York City.
For page see List of Advertisers.

Mr. B. Progressive, Florist,
Everywhere, U. S. A.

Dear Sir: It will be a decided advantage
as regards prices and quality to place your
order with us.

Soliciting your order through this ad
cuts down the overhead selling expenses
and you positively get lower prices and
better quality. Our terms are liberal and
are a guarantee that you get a square
deal, all bulbs guaranteed true to name or
money refunded.

Write us and upon request we will mail
you our booklet giving prices f. o. b. New
York or Chicago, and we also cheerfully
furnish you with any information that
may be desired. Those of our friends who
will mail us a list of their requirements
will find it has paid them to do so.

Awaiting to hear from you at your pleas-
ure, we remain,
Yours very truly,

Westerbeek & Klyn,
Sassenheim, Holland.

Write to WESTERBEEK & KLYNN, 14
STONE ST., NEW YORK, N. Y.

Henry F. Mitchell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.
For page see List of Advertisers.

Fottler, Fliske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

CANNAS

Rowan J. Irwin, New York City.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

CARNATION STAPLES

Split carnations quickly, easily and
cheaply mended. Pillsbury's Carnation
Staple, 1000 for 35c.; 3000 for \$1.00 post-
paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
Pompon Chrysanthemums.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Emma, a Garza Anemone, Double
Pompon, pale pink.

Chrysanthemums, Rooted-Cuttings: Bon-
naffon, J. Nonin, Chieftain, Polly Rose,
Halliday, Chrysolora, \$1.25 per 100, 300
Nonin, 300 Christmas, 300 Chieftain, 100
Chrysolora, 500 Bonnaffon, 3 inch., \$3.00
per 100. Cash. CHAS. H. GREEN,
Spencer, Mass.

DAHLIAS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

ORDERS BOOKED ANYTIME

For Fall or Spring delivery. Wholesale and
Retail. Send for Catalogue. NORTHBORO
DAHLIA & GLADIOLUS GARDENS, J. L.
Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest,
Best. New color, new form and new habit
of growth. Big stock of best cut-flower
varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

FERNS

A. M. Davenport, Watertown, Mass.
Ferns in Flats.
For page see List of Advertisers.

R. Vincent, Jr., & Sons Co., White Marsh,
Maryland.
Boston Ferns.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

For List of Advertisers See Page 163

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FLORISTS' PLANT STOCK

Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

B. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums S. A. Nutt, rooted cuttings,
\$8.00 per 1,000; 2 1/4 in., \$15.00 per 1,000.
First class stock. Cash. FRANK LEITH
& SON, Haverhill, Mass.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, cas-
tles, globes, aquarium, fish goods, nets,
etc., wholesale. FRANKLIN BARRETT,
Breeder, 4815 D St., Olney, Philadelphia,
Pa. Large breeding pairs for sale. Send
for price list.

GREENHOUSE BUILDING MATERIAL
King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset,
Boston.
Pecky Cypress.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION
King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

John C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION—Con.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

Hitchings & Co., New York City.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit,
Mich.
For page see List of Advertisers.

The Kervan Co., New York.

For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

Palisades Nurseries, Inc., Sparkill, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co.,
Chicago, Ill.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

IRIS

John Lewis Childs, Flowerfield, N. Y.
German Iris.
For page see List of Advertisers.

Albert Victor Pallida, best cutting vari-
ety, \$1.00 per 10, \$6.00 per 100, \$50.00 per
1000. HENRY C. ECKERT, Belleville, Ill.

LILY BULBS

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

McHutchinson & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hobmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.
Hathoro, Pa.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

R. & J. Farquhar & Co., Boston, Mass.
Trees.
For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Paul de Nave, Fall River, Mass.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.

PALMS

August Rolker & Sons, New York City.

In writing to Advertisers kindly mention Horticulture

PANSY SEED

Chas. Frost, Kenilworth, N. J.
The Kenilworth Giant Pansy.
For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
Giant Prize Pansy Seed.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

French Peonies can be shipped with
celerity and security via Bordeaux-New
York. Catalogues free. DESSERT, Peony
Specialist, Clononceaux (L. & L.), France.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

POINSETTIAS.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS. THE
CONARD & JONES COMPANY, WEST
GROVE, PA.

ROSE STAKES

The Carnation Support Co.,
Connersville, Ind.
For page see List of Advertisers.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Boigliano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Roddington Co., Inc., New York City.
Florists' Flower Seed for Present Sowing.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Mignonette, Improved Eclipse.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Seeds for the Florist.
For page see List of Advertisers.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

The Leo Niessen Co., Philadelphia, Pa.
For page see List of Advertisers.

STRAWBERRY PLANTS

STRAWBERRY PLANTS for August and
Fall planting. Runner and pot-grown
plants that will bear fruit next summer.
Standard and Everbearing varieties. Also
Raspberry, Blackberry, Asparagus Plants,
Fruit Trees. Catalogue free. Wholesale
price list sent to florists. HARRY E.
SQUIRES, Remsenberg, N. Y.

SWEET PEA SEED

W. Atlee Burpee & Co., Philadelphia, Pa.
Winter-Flowering Spencer Sweet Peas.
For page see List of Advertisers.

Arthur T. Roddington Co., New York City.
Winter Flowering Spencer Sweet Peas.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
For page see List of Advertisers.

Stumpp & Walter Co., New York City
Early Flowering Sweet Peas.

TREES

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VINCAS

Vinca Var., 4 in., heavy, \$12.50 per 100;
good, \$10.00 per 100; extra heavy, \$15.00 per
100. WILLIAM CAPSTICK, Auburndale,
Mass.

WEED KILLER

Pino-Lyptol Chemical Co., New York City.
Pino-Lyptol Weed Killer.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 493 Washington St.
For page see List of Advertisers.

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Rudlong, 184 North Wabash Ave.
For page see List of Advertisers.

For List of Advertisers See Page 163

WHOLESALE FLORISTS
Detroit

Michigan Cut Flower Exchange, 204-206
Randolph St.
For page see List of Advertisers.

New York

H. K. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
For page see List of Advertisers.

Hentz & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Traendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

Woodrow & Marketa, 37 and 39 W. 28th St.
For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 53 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Guttman & Reynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunther Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St.
For page see List of Advertisers.

George W. Crawbuck Co., 57 West 28th St.
For page see List of Advertisers.

Philadelphia

Leo Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ransdell St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
For page see List of Advertisers.

WHOLESALE FLORISTS
Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 21 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.

New Offers In This Issue**ASTERS.**

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

BIG ADVANCE VENTILATING MACHINE.

Advance Co., Richmond, Ind.
For page see List of Advertisers.

NEW CROP FLORISTS' SEEDS.

Roman J. Irwin, New York City.
For page see List of Advertisers.

POT GROWN STRAWBERRY PLANTS.

Wilfrid Wheeler, Concord, Mass.
For page see List of Advertisers.

POT-GROWN STRAWBERRY PLANTS.

Elizabeth Nursery Co., Elizabeth, N. J.
For page see List of Advertisers.

RAINBOW AND PURITY FREESIAS.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Prizes totaling \$800 were distributed to exhibitors at the 10th annual flower show at Southampton, N. J., last week. The huge marquee erected on the school grounds was beautifully decorated and the flowers and vegetables most tastefully arranged, making the show one of the most successful ever held. One-half the net proceeds will go for the benefit of the Southampton Hospital. The exhibitions of dinner tables were many and so attractive as to make judging difficult. Mrs. Rufus L. Patterson won 1st prize, Mrs. Horace Russell 2nd and Mrs. Edward Van Ingen 3rd. Attractive tables were shown by Mmes. Caleb Wild Hammill, Peter B. Wyckoff and Thomas B. Clarke. Mrs. Russell also carried off many other prizes, among them two silver cups for the best showing of fifteen vegetables. In a class by themselves were exhibits by Mrs. Henry H. Rogers. They occupied the place of honor at the entrance. One was an artistic display of tuberous begonias with six large baskets of the flowers suspended from a frame work. This exhibit was marked by the judges, "Gold medal, cultural certificate, certificate of merit for artistic arrangement." The other table holds a special display of achimeneses, some potted and others in eight baskets similar in design to the begonias.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 145 Summer St., Boston.

HELP WANTED

WANTED at once a young man with some experience in the seed business, for general office work, good handwriting indispensable, quick and correct at figures. Preference given to one used to compiling catalogue matter and getting same ready for printers. State full particulars as to previous employment, references and salary expected. Address "R." care Box 1149, New York Post Office, New York City.

SITUATIONS WANTED

Gardener with first-class references, 30 years old, married, no children. Experience in and outdoors on well-known private places. Address "R. S.," care HORTICULTURE, Boston.

WANTED—By young Japanese with American and Japanese gardener knowledge, as gardener or helper on private place. "K. F.," 96 Front St., New York.

FOR SALE**RETAIL SEED AND FLOWER STORE**

25 miles from Boston in city of 90,000 population. Old established concern doing a business of \$35,000 to \$40,000 a year, about one-half of which is seed trade. Address "T. R.," care HORTICULTURE.

FOR SALE—One 6-inch Castle Circulator complete with motor, one 6-inch Blower for forced draught; 2½, 3 and 4-inch gate valves. Write if interested. CHAS. H. RICE, Bedford St., Lexington, Mass.

FOR SALE AT AUCTION, August 16, 1916, Greenhouse Plant, 7,000 ft. of modern glass. Steam heat, good water power. One six room dwelling house with ell, steam heat; good location. Electric pass door. One mile from Gardner business section; 17,000 population. Owner going out of business. CARL J. ERICKSON, River Side Greenhouses, Gardner, Mass.

MISCELLANEOUS

WANTED TO LEASE, immediately, with privilege of purchase, about 12,000-15,000 feet of glass. Easy reach of Boston preferred. Particulars to EDE, Willow Street Greenhouses, West Roxbury, Mass.

THE NUT-GROWER

The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

In writing to Advertisers kindly mention Horticulture

CLUBS AND SOCIETIES

FLORISTS' CLUB OF PHILADELPHIA.

The August meeting of this club, held on August 1st, was better attended than might have been expected. In former years the great hurrah and excitement used to be the convention but since "Frisco" and "Hewston" snatched us on that August has been a funeral. The scheduled feature was a moving picture show entitled "New Ideas in Piping and Heating"—the speaker being Cornelius T. Roland, of the National Tube Co., New York City—and this came off in due course; showing the audience every feature of pipe making from the mine to the factory and finished product. Real interesting. Especially those red-hot blazing furnaces. Some of the lads who looked on may mend their ways now. They were shown what they are coming to if they don't behave. But it was all right and Mr. Roland received a hearty vote of thanks. We would suggest to next year's committee that heating is not a good subject for August. Refrigeration has a more attractive sound—about then. An unexpected attraction at the meeting was the presence of John Farquhar of Boston who, on request, gave us an account of the wonderful new things that have come to us in recent years from northern China through the Arnold Arboretum. Some fourteen hundred new and wonderful things. We have not yet begun to realize their value and beauty. But if we had only three things to show for Wilson's fifteen years of travel and countless perils and tribulations, those three—the great Buddleia, the great hardy lily, and the only hardy cedar of Lebanon—would have been ample compensation and assured him fame, fortune and the immortal plaudits of prosperity. Very few plants of this wonderful hardy cedar of Lebanon have so far escaped from captivity. One of these is in possession of our fellow citizen, Mr. Morris, of Chestnut Hill. How this hardy cedar managed to survive on the higher reaches of the Himalayas is a mystery but there are lots of mysteries as well as miracles in this world since Moses struck the rock and Joshua halted the sun and moon. The September meeting will be Drear's will be the spotlight hero—he Dreers will be the spotlight hero—he and a fine exhibit of new and fancy varieties.

AMERICAN CARNATION SOCIETY.

Anton Then, Chicago, registers the new carnation Thenanthos. Parentage Enchantress X Red Seedling. Color brilliant red. Size 3½ inches. Prolific bloomer and entirely free from disease, being never troubled with rust. Raised by John A. Then.

A. F. J. BAUR, Sec'y.

COMING EXHIBITIONS.

August 15-18, Houston, Texas. Trade Exhibition in connection with S. A. F. Convention.
August 24-25.—Lewiston, (Me.) Annual Flower Show, Gardeners' Union, Lewiston City Hall.
August 3, Oyster Bay, L. I., N. Y.—Dahlia Show, Oyster Bay Horticultural Society.
August 11-12-13, Boston.—American Gladiolus Society, Horticultural Hall.
August 24, Worcester, Mass.—Gladiolus Exhibition.
Sept. 2-9, Cleveland, Ohio.—Industrial Exhibition and Fair.
Syracuse, N. Y., Sept. 11-16.—New York State Fair.
Sept. 12-13, Providence, R. I.—Rhode Island Horticultural Society, Narragansett Hotel.
Sept. 11-16, Syracuse, N. Y.—Seventy-Sixth Annual New York State Fair.

TEXAS STATE FLORISTS' ASSOCIATION.

Program of the Third Annual Convention, Houston, Aug. 14, 1916.

The morning and afternoon sessions will be held in the Banquet Hall of the Houston City Auditorium.

FIRST SESSION, 10 O'CLOCK A. M.

Meeting Called to Order by President R. C. Kerr; Invocation—Dr. Peter Gray Sears; Address of Welcome—Hon. Ben. Campbell, Mayor of Houston; Response—E. E. Stone, Dickinson; Reading of Minutes of 1915 Convention; President's Annual Address; Report of Secretary-Treasurer; Report of Committees; Report on 1915 Flower Show; Appointment of Committees, Better Freight Rates for Texas Florists, by W. J. Baker, Ft. Worth; The Importance of Membership in the S. A. F. & O. H. by Henry Greve, Dallas.

SECOND SESSION, 2 P. M.

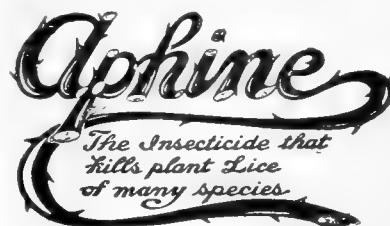
Selecting of Place for 1917 Convention; Selecting of Place for 1916 Flower Show; Election of Officers; Progress that is Being Made Towards Securing an Experimental Range of Glass—Prof. E. J. Kyle, College Station; The Difficulties of Retailers with Wholesalers on Shipments of Cut Flowers Unfit for Use and How to Overcome Them—A. F. Koehle, Sherman.

THIRD SESSION, 8.30 P. M.

The evening session of the convention will be held at a banquet on the Rice Hotel Roof Garden.

Practical Use of Our Wild Flowers—C. E. Papworth, Ft. Worth; The Need of More Wholesale Glass in Texas.—H. O. Hannah, Sherman; What the Ladies are Doing for the Florists' World—Mrs. Annie Wolfe Bregance, Waco; The Outlook for Texas Florists for the Coming Year, with Some Suggestions on What to Expect—Otto Lang, Dallas.

All florists, in or out of the state, who contemplate attending the convention of the S. A. F. & O. H. are invited to come early so as to be with us on the 14th, to attend the convention of the Texas florists.



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.
Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago



IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON



NIKOTEEN

For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer For It.

NICOTINE MFG. CO.
ST. LOUIS

When writing to advertisers kindly mention **HORTICULTURE**.

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**AMERICAN ASSOCIATION OF
PARK SUPERINTENDENTS.**

The Eighteenth Annual Convention of the American Association of Park Superintendents will be held in the city of New Orleans, October 10-11-12, 1916.

Inasmuch as this is the first convention of the organization to be held in the South, it is confidently expected that there will be a larger and more representative attendance than ever before, bringing together park executives from all sections of the United States and Canada.

Eminent men of the profession will participate in a program of lectures, papers and discussions; the local park authorities are preparing a social program which will demonstrate the famous Southern hospitality; there will be an opportunity to inspect the remarkable development along recreational lines which has taken place in the progressive cities of the South and most important of all, will be the man to man discussion of methods and ideas, which is only possible on an occasion of this kind, where there are present men who have had to deal with every problem which ever presents itself to a park executive.

A trip to the New Orleans convention will be educational as well as recreational and every park executive should embrace the opportunity to spend his vacation in this way. Remember the dates, October 10-11-12, and plan your vacation accordingly. A detailed program will be published later. Special parties will be arranged from different sections.

ROLAND COTTERILL, Sec'y.

Seattle, Wash.

CLUB AND SOCIETY NOTES.

The Sayville (N. Y.) Garden Club will hold a fall flower show in the opera house, Sayville, on September 1 and 2.

The newly organized Sewickley (Pa.) Horticultural Society has elected officers as follows: President, G. Wessenaar; vice-president, R. Boxel, treasurer, William Thompson, Jr.; secretary M. Curran; executive committee, Alexander Davidson, J. Carman, William Thompson, Sr., J. Barnett and Charles Patton. The president appointed the following committee on by-laws: William Thompson, Jr., Charles Patton and J. Barnett.

Notwithstanding the various natural handicaps that have, throughout the season, been delt out to garden lovers and flower growers, the first show of the season held at Stockbridge, Mass., Saturday afternoon, July 29, came through with a very considerable amount of credit. Regardless of the fact that the season of sweet peas was considerably past its height, the class for this popular flower was well filled, and all things considered, made a very commendable showing. The hardy

DREER'S "Riverton Special" Plant Tub

No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.60	\$17.50	\$145.00
20	18 in.	1.45	15.50	130.00
30	16 in.	1.10	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

perennials were the most flourishing and sturdy part of the exhibition, the annuals showing in a more or less general way the effects of the very recent heavy rains. Decorative arrangements by the ladies of the summer estates, suitable for the guest chamber, the hall, the dining table, brought out the highest artistic taste of the competitors.

Obituary**Michael Donohue.**

Michael Donohue, who had been employed as gardener at Roger Williams Park, Providence, R. I., for over 25 years, died Saturday, July 15th, aged 61 years. He was born in Ireland and came to Providence 32 years ago.

Richard H. Dunbar.

Richard H. Dunbar, florist and dealer in antique furniture for many years, died on July 28, at his home in Bristol, R. I., following an illness from kidney trouble. Mr. Dunbar was 58 years old and a native of Bristol.

George Roney

George Roney, senior member of the firm of Roney Bros, florists, West Grove, Pa., met with a fatal accident on July 22nd. It seems that they were moving a boiler and the wire slipped and Mr. Roney was caught between the boiler and the steps and instantly killed.

John Supper.

John Supper, 70 years old, a prominent florist, Lakewood, N. J., committed suicide by firing two shots into his side last Saturday night. He left a note that he wished no flowers at his funeral and wanted to be buried in the back yard. Friends are at a loss for the man's act. Mr. Supper is survived by a widow and two sons.

John W. Lyon

Friends in Chicago are pained to learn of the death of John W. Lyon, of Lyon & Anderson, of Belvidere, Ill., at the Freeport, Ill. hospital, July 28th. The funeral was held at Belvidere on Sunday, July 30th.

John W. Lyon was a man highly esteemed and had held places of trust

and honor in civic life, being at one time mayor of Belvidere.

Mrs. T. Kalish.

Edward and John Kalish of The Kalish Bros. Floral Co., St. Louis, Mo., are extended the sympathy of the trade in the loss of their mother, Mrs. T. Kalish, who died July 24th, after an illness of ten days. Mrs. Kalish was one of the company since her husband died, and acted as treasurer. The funeral took place on Thursday, July 27. Many beautiful floral pieces were sent by the trade, of whom many attended the funeral services.

William Thomas Logan.

William Thomas Logan, seedsman, died at his home, Brighton street, Rochester, N. Y., on July 19th, aged 67 years. He was first employed by James Vick's Sons, later with Mandeville, King & Co., and finally became manager of the retail seed department of Crosman Bros. Co. Less than two years ago he purchased the seed business of this concern. It is understood the business will be discontinued. He is survived by one brother and two sisters.

PITTSBURGH.

The marriage of De Forrest W. Ludwig and Miss Irene Collins of Meyers will be an event for October.

William M. Turner, of Wilkinsburg, and party are on a six weeks' motor trip through the east. George McCallum has returned from Atlantic City.

Augustura Frishkorn, manager of Beckett's Seed Store, and son have returned from a lake trip. H. Grabert of the same firm is camping in Michigan.

Mr. and Mrs. Walter Miller and their son are visiting in Cleveland. Miss Mathilda H. Schmidt, a saleswoman for the E. C. Ludwig Floral Co., is at Atlantic City.

**STANDARD FLOWER
POTS**

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts., Washington, D. C.

GREENHOUSES BUILDING OR CON-TEMPLATED.

Shepard, O.—R. E. Myers, carnation house.

Freeport, Me.—P. S. Bur, enlarging and repairing.

Thomas, Wash. — Robert Telby, range of houses.

St. Davids, Pa.—Charles S. Walton, Lord & Burnham house.

Denver, Col.—Charles E. Johnson, house 45 x 150, completed.

Denver, Col.—Chas. E. Johnson, 630 S. Gaylord street, house 55 x 150.

Morton Grove, Ill. — Poehlmann Bros. Co., four houses, each 24 x 200.

Lancaster, Pa.—F. A. Suter & Co., 835 Highland avenue, house 28 x 100.

PATENTS GRANTED.

1,192,699. Hedge-Trimmer. Louis H. Soisson, Scottsdale, Pa.

1,192,743. Lawn-Sprinkling Means. John A. Brooks, Toledo, Ohio.

FREAKY FACTS AND FACTLESS FREAKS.

Greensburg, Pa., July 25. The crop of potato bugs is heavier in Westmoreland county than for many years. John Calvin, a farmer of Hempfield township, has devised a novel scheme that is quite successful in ridding his patch of the pests.

He has rigged a small gasoline engine and vacuum cleaner on a little wagon, which he hauls up and down the rows, drawing the potato bugs in as he goes. He says it is the greatest success by way of ridding a field of the pests he has ever attempted.

Formerly the method employed was to poison the bugs or pick them off by hand.—*Boston Traveler*.

Plymouth, July 27.—Pink lettuce, potato-bugless potatoes and fruits flavored to taste are some of the experiments and accomplishments of Bernard Field, the "Wizard of Plymouth Rock," as this civil engineer, biologist, discoverer and student has come to be known.

Bernard Field, the discoverer of a minute form of life which he has termed dextrogerm ("the right germ"), has used "his bugs," as he calls them, to give to lettuce the coloring and characteristics of the rose, and grow potatoes which the time-honored potato bugs refuse to live upon.—*Boston Post*.



NOV-KINK WOVEN HOSE

In any length (one piece) with couplings, 14c. per foot. Unequaled at the price. Remnants, shorter than 50 feet, 10c. per foot, with couplings.

HOSE VALVE—70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

THE FLORISTS' HAIL ASSOCIATION

Is a mutual organization, insuring green house glass against hail. Both commercial and private establishments are accepted. For particulars, address

John G. Esler, Sec., Saddle River, N. J.
Insure Now.



Make the Garden More Beautiful

They have a special style of construction which, while very strong does away with heavy shadow-casting supports. This makes every King especially sunny and productive and enables you to give your garden an earlier start.

Then this special construction, noted for its graceful sweeping lines, can be adapted to suit any style architecture or landscape plan. The King is in itself the beauty spot of the garden.

Write for Bulletin No. 47—Send us a picture of your home. Tell us your own ideas, and let our experts prepare a sketch and plan showing just how a King can add dignity and grace to your garden—No obligation on your part of course.

KING CONSTRUCTION COMPANY

28 KINGS ROAD, NORTH TONOWANDA, N. Y.

Boston Office: 113 State St.

Philadelphia Office: 15th and Market Sts.

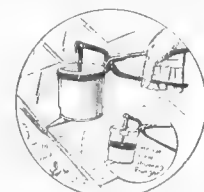
Dreer's Peerless Glazing Points
For Greenhouses
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c. postpaid.
Samples free.
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL SIZE No. 2

MASTICA

For Greenhouse Glazing
USE IT NOW
F. O. PIERCE CO.
12W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

4-eal-tight liquid putty at \$1.25 per gallon
METROPOLITAN MATERIAL CO.
1392-1414 Metropolitan Ave., Brooklyn, N. Y.

GLASS

GREENHOUSE MATERIAL HOT-BED SASHES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

PATENTS

Trademarks and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address.

SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

HOTBED SASH at 75c. each
Made of best grade Gulf cypress.
Glazed Hotbed Sash from \$1.65 up.
Double Light Sash up to \$4.00.
We carry a large stock of all sizes.
Write us for estimate.
S. JACOBS & SONS
1359-1385 Flushing Avenue BROOKLYN, N. Y.

START RIGHT

Heat is the most important problem. Spare yourself unnecessary expense and dissatisfaction by settling this problem first.

HOT WATER HEATING is more Economical than Steam. It is the Ideal Heat for the Greenhouse. **KROESCHELL BOILERS** are making unsurpassed records. Get rid of that Cast Iron Boiler and let the difference in your coal bill pay for a KROESCHELL. May we send our new catalogue?



KROESCHELL BROS. CO.

466 West Erie Street, CHICAGO, ILL.



THE RIGHT WAY

Gives Us The Right Of Way



Every Metropolitan greenhouse is planned with an eye to results—successful crops.

Our cares do not cease with the mere mechanical part of the work. And, while we no doubt owe a great deal of our success to the high grade character of our labors, still we base our claims for your consideration, upon our ability to erect the right kind of a greenhouse, in the right manner, at the right price.

PUT YOUR GREENHOUSE PROBLEMS UP TO US

We go anywhere in the U. S. to submit plans and prices.

METROPOLITAN MATERIAL CO.

Patented Greenhouses

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, CHICAGO, ILL.



PRICES—NET F. O. B. RICHMOND.

Big ADVANCE VENTILATING MACHINE complete with pipe posteach \$12.00
Less pipe post " 11.00
Truss Type ARMS complete with bolts..... " .30
Hangers complete with screws..... " .10
Shafting Pipe 1 1/4 in. complete with patent pipe couplingsper ft. .07
Patent Pipe Couplings for 1 1/4 in. pipe separate.....each .15
All PRICES absolutely the same to each and every customer.
We can make immediate deliveries. For further information and prices, get our catalog, sent FREE on request.
Remember our Complete line of GREENHOUSE FITTINGS.
We solicit your business and guarantee to handle it for you in a satisfactory manner.

ADVANCE CO.

RICHMOND, - - - IND.

CYPRESS GREENHOUSE STOCK

PECKY CYPRESS BENCH STOCK

HOT BED SASH

Ask for Circular D and Prices

THE A. T. STEARNS LUMBER COMPANY

NEPONSET, BOSTON

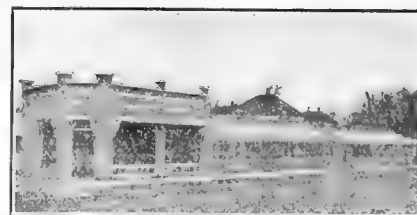
SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.



EVERYTHING FOR THE GREENHOUSE

John C. Moninger Company

CHICAGO 922 Blackhawk St. NEW YORK 812 Marbridge Bldg.
CINCINNATI, 2314 Union Central Bldg.



Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out

JOHN A. EVANS CO.
Richmond, Ind.

When writing to advertisers kindly mention **HORTICULTURE**.



Houses To Visit On Your Boston Vacation Visitation Visit



ON Decoration Day, I was talking with a leading New York State florist about his vacation, when he dove into his inside pocket and pulled out an advertisement, containing a partial list of our houses in and around Boston. Handing it to me, he said, "I am going to Boston on my vacation and shall visit some of those houses. If the fellow who wrote that Ad. had put in the directions how to get to the houses, and also what each grower grows, it would have been a big help to me."

Then I promptly offered to do that very thing for him.

And now it occurs to us that you may also be going to Boston and would like just such a list. So here it is.

Here's hoping you will have a jolly good time, and come away with a bundle of helpful ideas.

Of course, you'll call on Mr. Elder, our Eastern Manager. Lord & Burnham Co.'s office is in the Tremont Building, and you will be warmly welcomed.

Waban Rose Conservatories, Natick, Mass. Grow roses. Have 1 house 24' x 300' 2 houses 21' x 700' and one 40' x 947' 6". Take B. & A. train from South Station. 18 miles. 42 minute run.

A. A. Pembroke, North Beverly, Mass. Grows carnations. One house 60' x 525'. Take B. & M. train from North Station. 21

miles. 44 minute run. Or take train to Beverly and trolley to North Beverly.

John Barr, South Natick, Mass. Grows carnations. Has Semi-iron Frame house 35' x 311'. Take B. & A. train from South Station to Natick. At Natick, take trolley car to South Natick. 18 miles. 42 minute run.

Thomas Roland, Revere, Mass. Grows sweet peas, tomatoes and roses. Has one house 50' x 600', one 61' x 525', one house 76' x 650'. Take Cliftondale-Saugus subway car at Scollay Square. Car passes greenhouses. 35 minute run.

William Sim. Cliftondale, Mass. Grows sweet peas, violets, tomatoes. Three Semi-iron Ridge and Furrow houses 20' x 201', one 43' x 400', one 20' x 100' one 30' x 243'. Take Cliftondale-

Saugus subway car from Scollay Square. 51 minutes. Or take B. & M. train from North Station, 9 miles, 28 minute run.

W. A. McAlpine, Exter, N. H. Grows roses. Has 2 houses 60' x 400'. One 80' x 600'. Take B. & M. train from North Station. 51 miles. 1 hour, 40 minutes run.

William R. Nicholson, Framingham, Mass. Grows carnations and general plants. One house 23' 6" x 207', one 30' x 214', one 52' x 200'. Take Boston and Albany train from South Station. 22 miles. 42 minute run.

Strout's, Inc., Biddeford, Me. Grow carnations and general plants. Semi-iron Frame house 22' 6" x 55'. Iron Frame house 49' x 183'. Take B. & M. train from North Station, 97 miles. 3 hours, 3 minutes run.

NEW YORK
42nd Street Bldg.
BOSTON
Tremont Bldg.
ROCHESTER
Granite Bldg.

Lord & Burnham Co.

CLEVELAND
Swetland Bldg.

TORONTO
Royal Bank Bldg.

PHILADELPHIA
Widener Bldg.
CHICAGO
Rookery Bldg.

MONTREAL
Transportation Bldg.

FACTORIES: Irvington, N. Y. Des Plaines, Ill. St. Catharines, Ontario

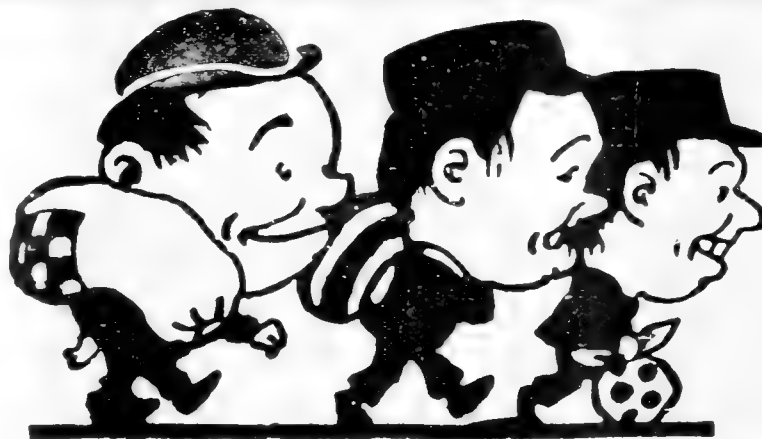
Vol. XXIV
No. 7
AUG. 12
1916

HORTICULTURE



Jackson Thornton Dawson

Born October 5, 1841—Died August 3, 1916



Houses To Visit On Your New York Vacation Visitation Visit

When you pack your duds and come to Little Old New York, along with the rest of the vacationers—why don't you just take this list of houses and check off the houses you want to visit? Every one of them is worth while seeing. Several of them are our new wide spaced construction, the latest in greenhouses. With something like two thousand trunks at your command, going in and out of New York each day, you can cover a lot of territory in a short time.

Before you start out, why not call around at our office, and let us suggest ways and means. The gladdest kind of a glad hand we come awaits you.

BURGEVIN BROS., Kingston, N. Y. Plants, Carnations and Roses.

2 houses each 14 ft. wide by 225 ft. long.

1 house 11 ft. wide by 233 ft. 4 in. long.

Iron Frame Workroom 34 ft. wide by 120 ft. long.

The two larger house were built with 12 ft. 6 in. spacing, with curved arch for supporting the roof. No chimneys.

Take the West Shore R. R. to Kingston. The houses are about 15 minutes walk from the Station, or you can take a trolley from the Station to within a block of the greenhouses.

A. S. BURNS, Jr., Spring Valley, N. Y. Roses, Carnations and Lilies.

These two greenhouses each 50 ft. wide by 400 ft. long, of standard Iron Frame Construction, 12 ft. 6 in. spacing.

Take W. 23rd Street to Jersey City and take the Erie R. R. or the N. J. & N. Y. R. R. to Spring Valley, N. Y. The houses are about 5 minutes walk from the railroad station.

GEO. PETERS & SONS, Hempstead, L. I. Carnations and Chrysanthemums.

Just completed 1 house 62 ft. wide by 200 ft. long. 2 houses, each 17 ft. wide by 150 ft. long. These are of Iron Frame Boiler and Furrow type, and are 8 ft. 4 in. spacing.

Take the L. I. R. R. from the Penn. R. R. Station, N. Y., and go to Hempstead. The greenhouses are about 10 minutes walk from the station.

M. MATHERON, Baldwin, L. I. Carnations and Chrysanthemums.

One greenhouse 100 ft. wide by 250 ft. long. This house will be completed about Sept. 1st. This is of our standard Iron Frame Construction, 12 ft. 6 in. spacing.

We also built a house for Mr. Matheron two years ago, 40 ft. wide by 200 ft. long. This is of Iron Frame Construction, 8 ft. 4 in. spacing.

Take the L. I. R. R. from the Penn. R. R. Station, getting off at Baldwin. The greenhouses are about 5 minutes walk from Baldwin.

TRAENDLY & SCHENCK, Rowayton, Conn.

Roses, Carnations and Chrysanthemums.

Just completed two (2) Iron Frame Shadowless Ridge type of greenhouses, each 62 ft. wide by 50 ft. long, with an Iron Frame Boiler House 40 ft. wide by 50 ft. long. These are the new type of rose house, with 12 ft. 6 in. spacing, the long span to the South.

Take N. Y., N. H. & H. R. R. (Grand Central Station). The greenhouses are 5 minutes walk from Rowayton Station.

BEDFORD FLOWER CO., Bedford, N. Y.

Standard Iron Frame Greenhouse 41 ft. wide by 562 ft. long, with 12 ft. 6 in. spacing.

The best way to reach this place is to take the Harlem Division of the N. Y. C. & H. R. R. (Grand Central Station), and get off at Bedford Station. The greenhouses are about 10 minutes walk from the Station.

JOHN WALLENBORN, Smithville, South, L. I.

Iron Frame House recently completed, 40 ft. wide by 200 ft. long, 8 ft. 4 in. spacing. Also a house 50 ft. wide by 150 ft. long, also with 8 ft. 4 in. spacing.

Take L. I. R. R. from Penn. Station to Bellmore Station, and from there take a train to Smithville South, about 3 miles.

CHAS. FISH, Blue Point, L. I.

Carnations.

One (1) Iron Frame Greenhouse 40 ft. wide by 200 ft. long, with 8 ft. 4 in. spacing. Built last year. Mr. Fish erected this house himself.

Take L. I. R. R. (Penn. Station) to Blue Point. Greenhouses right at Station.

J. F. ABRAMS, Blue Point, L. I.

Carnations.

One (1) Iron Frame Greenhouse 45 ft. wide by 400 ft. long, with 8 ft. 4 in. spacing. This house was completed about 2 years ago.

Take L. I. R. R. (Penn. Station) to Blue Point.

HENRY HESSON ESTATE, Flatbush, Brooklyn, N. Y.

Carnations.

One (1) Iron Frame Greenhouse 31 ft. 4 in. wide by 191 ft. 9 in. long, with 8 ft. 4 in. spacing.

Take Brighton Beach Elevated R. R. from Brooklyn Bridge, N. Y. C. to Church Ave., and then the Church Ave. Trolley to Troy Avenue. Greenhouses within sight of trolley.

DAILEDOUZE BROS., Flatbush, Brooklyn, N. Y.

Carnations.

Two (2) Iron Frame Greenhouses, each 57 ft. 5 in. wide by 200 ft. long, with 8 ft. 4 in. spacing.

Directions same as for Henry Hesson estate.

A. L. MILLER, Rockaway Road, Jamaica, L. I.

General Plants for Easter and Christmas

Has 40 to 50 greenhouses, covering about 100,000 square feet.

Take L. I. R. R. from Pennsylvania Station, New York City, to Jamaica.

BRANT BROS., Utica, N. Y.

Carnations and Roses.

New house 51 ft. wide by 475 ft. long, with 8 ft. 4 in. spacing, of Iron Frame Construction. One erected last year, 40 ft. wide by 400 ft. long, with 8 ft. 4 in. spacing, of Iron Frame Construction. Also an Iron Frame Boiler House 40 ft. wide by 25 ft. long.

Trolley goes within block.

Lord & Burnham Co.

SALES OFFICES:

NEW YORK
42nd Street Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Widener Bldg.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

CLEVELAND
Swetland Bldg.

TORONTO, CANADA, Royal Bank Bldg.

MONTREAL, CANADA, Transportation Bldg.

FACTORIES: Irvington, N. Y. Des Plaines, Ill. St. Catharines, Canada.

GERANIUMS

Alphonse Ricard, Beaute Poltevine, S. A. Nutt, Gen'l Grant, Mad. Buchner, Mad. Recamier, Jean Oberlee, Abbie Schaefer, Mad. Landry, La Favorite, Jean Vland and other good kinds, in good 3-in. stock at \$3.00 per 100, \$25.00 per 1000; 2-in. at \$2.00 per 100. We have a large stock on hand for immediate shipment and are booking orders for next season.

BOSTON FERNS, 4 inch, \$15.00 per 100; 7-inch, \$6.00 per doz; 8 inch, \$1.00 each, \$9.00 per doz. Large plants in 11 and 12 inch pots, \$2.50 and \$5.00 each.

	2-in. 100	2-in. 1000	3-in. 100	3-in. 1000		2-in. 100	2-in. 1000	3-in. 100	3-in. 1000
ALYSSUM, Dwarf and Giant.....	\$2.00	\$18.50	\$3.00	\$25.00	PARLOR IVY, S. Scandens.....	\$2.00	\$18.50	\$3.00	\$25.00
COLEUS, ten varieties.....	2.00	18.50	3.00	25.00	POMPON CHRYSANTHEMUMS ..	2.00	18.50	3.00	25.00
CUPHEA PLATYCENTRA	2.00	18.50	3.00	25.00	SALVIA, Bonfire and Zurich.....	2.00	18.50	3.00	25.00
LEMON VERBENAS, six varieties.	2.00	18.50	3.00	25.00	SWAINSONA, White.....	2.00	18.50	3.00	25.00
MOONVINES	2.00	18.50	3.00	25.00					

CELESTY. White Plume, Giant Pascal and Golden Heart \$1.00 per 1000; 10,000 and over 85c. per 1000.

PARSLEY. Dwarf Fern leaf; 25c. per 100, \$1.25 per 1000.

CASH WITH ORDER.

R. VINCENT, Jr., & SONS CO.,

**WHITE MARSH,
MD.**

LILY OF THE VALLEY PIPS

Danish and German Stock
Booking Orders now for
1916 Crop

LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

CHAS. SCHWAKE & CO., Inc.

Valley

GERMAN, SWEDISH
AND DUTCH PIPS

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....224	Crawbuck, Geo. W. Co.....219	Guttman & Raydor .....218	Lord & Burnham Co.....194-227	Pennock-Meehan Co.....217	Smith, Elmer D. & Co.....196
Albany Cut Flower Ex.....218	Dards .....212	Hail Association.....226	McHutchison & Co.....198	Pierce Co., F. O.....226	Smith, P. J.....218
Allen, J. K.....219	Davenport, A. M.....198	Hart, Geo. B.....218	McManus, Jas.....218	Pierston, A. N.....197	Smith & Fettes.....213
Anderson, S. A.....213	Dreer, H. A.....209-224-226	Henderson, A. & Co.....211	McConnell, Alex.....212	Pierston, F. R.....197	Smith, W. & T. Nursery Co.....197
Anglin & Walsh.....197	Dorner, F. & Sons Co.....196	Henderson, Peter & Co.....208	MacNiff Horticultural Co.....197	Poehlmann Bros. Co.....216	Smyth, Wm. J.....213
Aphine Mfg. Co.....225	Dunlop, John H.....213	Hentz & Nash.....218	Marshall, W. E. & Co.....211	Randall's Flower Shop.....212	Stumpp, G. E. M.....212
Badgley & Bishop, Inc.....218	Dysart, R.....219	Hess & Swoboda.....213	Metropolitan Material Co.....224	Reed & Keller.....216	Stumpp & Walter Co.....196
Barrows & Son.....196	Eastern Chemical Co.....225	Hews, A. H. & Co.....224	Michell, H. F. Co.....211	Riedel & Meyer.....218	Thorburn, J. M. & Co.....211
Bayersdorfer, H. & Co.....215	Edwards Folding Box Co.....216	Hill, E. G. Co.....216	Michigan Cut Flower Ex.....216	Reid, Edw.....216	Totty, Chas. H.....196
Bay State Nurseries.....197	Elliott Auction Co.....197	Hill, D. Nursery Co.....197	Millang, Chas.....218	Reiters.....213	Traendly & Schenck.....218
Bobbink & Atkins.....197	Elizabeth Nursery series.....205	Hitchings & Co.....228	Millang, Frank.....219	Robinson, H. M. & Co.....219	United Cut Flower Co.....219
Boddington, A. T.....207	Ernest, W. H.....224	Holland Nurseries.....197	Moninger, J. C. Co.....226	Robinson, H. M. Co.....218	Valentine, J. A.....212
Boligano & Son.....211	Esler, J. G.....226	Holm & Olsson.....212	Murray, Samuel.....212	Roebrs, J. Co.....198	Vincent, R. Jr., & Sons Co.....195
Breck, J. & Sons.....211	Evans, J. A. Co.....226	Irwin, R. J.....211	National Nurseryman.....197	Roland, Thomas.....212	Wants, For Sale.....223
Brietmeyer's J. Sons.....212	Eyres.....213	Jacobs, S. & Sons.....224-226	Nave, Paul de.....198	Roiker, A. & Sons.....197	Ward, R. M. & Co.....196
Budlong, J. A.....216	Farquhar, R. & J. & Co.....211	Kasting, W. F. Co.....216	Nicotine Mfg. Co.....225	Rosery, The.....212	Weber, F. C.....213
Bunyard, A. T.....212	Foley Mfg. Co.....226	Keller, J. B. Sons.....212	Niessen, Leo Co.....216	Schling, Max.....212	Weiss, Herman.....219
Burnett Bros.....211	Ford, W. P.....218	Kerr, the Florist.....213	Nut Grover.....223	Schwake, Chas. Co.....195	Welch's.....216
Burpee, W. A. & Co.....211	Ford, M. C.....218	Kervan Co.....218	Ouwkerk, P.....197	Sharp, Partridge & Co.....226	Welch Bros. Co.....216
Carnation Support Co.....197	Frost, Chas.....198	King Construction Co.....224	Palisades Nursery series.....197	Sheridan, W. F.....218	Welch, Patrick.....219
Carter's Tested Seeds, Inc.....210	Froment, H. E.....218	Knoble Bros.....213	Palmer, W. J. & Son.....213	Siebrecht, Geo. C.....218	Wheeler, Wilfrid.....197
Child's, John Lewis.....196	Galvin, Thos. F.....213	Kramer, F. H.....213	Park Floral Co.....212	Siebrecht, W. R.....218	Wood Bros.....196
Clarke's D., Sons.....197	Gasser Co., J. M.....213	Kroeschell Bros.....226	Parshelsky Bros.....226	Siggo's & Siggo's.....226	Woodrow & Mar. Ketos.....216
Clecas, R. W.....212	Goddard, S. J.....206	Kuebler, W. H.....218	Pellcano, Rossi & Co.....213	Skidelsky, S. S. & Co.....211	Young, John & Co.....218
Coan, J. J.....219	Graham, Adam & Son.....213	Lager & Hurst.....198	Penn the Florist.....213	Small, J. H. & Sons.....214	Young & Nugent.....212
Cooke, Geo. H.....212	Grey, Thos. J. Co.....211	Lange, H. F. A.....213			Zvolanek, Ant. C.....211
Cooee, W. J.....216	Gude Bros. Co.....212	Leonard Seed Co.....211			
Craig, Robt. Co.....197	Gunther Bros.....219	Loechner & Co.....195			

FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 220, 221, 222, 223

Early Flowering LONG SEASON Spencer Sweet Peas *for Winter Flowering Under Glass*

Since the introduction of Yarrowa Spencer Sweet Peas, great effort has been made on the part of California and Australian growers to produce Early-flowering Spencer Sweet Peas. We offer a list of varieties by one of the most prominent Californian and one of the most prominent Australian growers. One of their chief characteristics is their long season, period of blooming, frequently remaining in bloom for four months. Every one of the crosses were made from the old Early-flowering or Christmas Grandiflora types on the late or Standard Spencers as parents. We feel that there will be little demand for the common or Grandiflora Winter-flowering Type and have, therefore, decided to discontinue offering the same.

Californian Varieties Ready for Delivery August—September

EARLY MORNING STAR

The color is a deep orange scarlet or flame color in standard, with rich, orange-pink wings. The flower is practically the same color as the Late-flowering Spencer Thomas Stevenson. It does not burn out in the open and under glass will be magnificent. The flowers are large and of best Spencer form, and borne in threes and fours in wonderful profusion. Pkt., 15 seeds, 25c.; ¼ oz., \$1.50; oz., \$5.00.

EARLY SNOWFLAKE

This is one of the best Early-flowering White-seeded White Spencers. The blossoms are very large and of the best waved Spencer form. The flowers are borne in wonderful profusion on long stems. The form is every bit as good as White Spencer. Pkt., 15 seeds, 25c.; ¼ oz., \$1.50; oz., \$5.00.

EARLY SPRING MAID

Those who are familiar with the Late-flowering Spencer Mrs. Hugh Dickson, will have a good idea of what a handsome variety this is. The color is a light pink on a cream ground, and the blossoms have the same splendid characteristics of Mrs. Hugh Dickson for a florist's flower. It is a most effective flower and, like our other Early-flowering Spencers, it carries a great wealth of blossoms borne in fours on long stems. There is no Early Spencer Cream Pink which is as attractive as Early Spring Maid. Pkt., 25 seeds, 25c.; ¼ oz., \$1.25; oz., \$4.00.

EARLY MELODY

This is a deeper shade of pink than Early Song Bird on white ground, closely resembling Countess Spencer and near Hercules. It might be described as rose pink on white ground. The effect, when bunched, is most pleasing. It is very floriferous. The flowers are borne on long stems and mostly four large, well waved blossoms to each stem. Pkt., 25 seeds, 25c.; ¼ oz., \$1.25; oz., \$4.00.

EARLY SONG BIRD

The flower is the same color as Florence Morse Spencer and Lady Evelyn Eyre, and a bit lighter than Elfrida Pearson. It has the same excellent form and features of Mrs. Hugh Dickson, but is on a white ground. The placement of the flowers is splendid for packing and the flowers are borne on long stems in threes and fours. When in full growth it seemed as though every stem carries four large blossoms. Pkt., 25 seeds, 25c.; ¼ oz., \$1.25; oz., \$4.00.

EARLY HEATHER BELL

This will be one of the most popular shades with all florists, as it will be useful for making up for any occasion. It is a little like the variety known as Anita Wehrman, but vastly superior in every way. The flowers are very large, borne in fours and threes on long, stout stems, and are of beautiful, bold Spencer form. The color is a rich but pleasing mauve, but after standing in water the color becomes a beautiful mauve lavender. Pkt., 25 seeds, 25c.; ¼ oz., \$1.50; oz., \$5.00.

Australian Varieties Ready for Delivery NOW

CONCORD STRAIN

Pkt., 18 seeds each of any of the following varieties, 35c.; 5 pkts., \$1.50

CONCORD PINK. A beautiful, new variety of a most attractive shade of delicate pink. The flowers are large and of true Spencer form. The stems, which are long and strong, usually carry 3 large flowers.

CONCORD CRIMSON. A variety of great merit on account of its glowing color. It is a rich crimson; the flowers, of true Spencer form, are borne on strong, stiff stems.

CONCORD LAVENDER. Without a doubt this is the finest of all Lavender Winter-flowering Sweet Peas. The color is a beautiful shade of rich, rosy lavender. The flowers are of true Spencer form.

CONCORD WHITE. A splendid, pure white variety of wonderful vigor and

substance. The flowers are pure white and of ideal Spencer form, borne three and four to the stem.

CONCORD SALMON. A rich shade of salmon pink and very free flowering. The flowers are borne three and four to a stem and are of true Spencer form.

CONCORD BLUE. This magnificent variety is of a beautiful sky-blue color, sometimes varying darker, the variation, however, being slight. Quite the finest sky-blue we know of.

CONCORD PURPLE. A leader in its color. When first opening, a delightful shade of mauve purple, changing, as the flower ages, to purple blue. The flowers are of ideal Spencer form and quite large.

YARROWA

The finest Rose Pink Winter Flowering Spencer; the ideal florist variety. Pkt., 15c.; ¼ oz., 35c.; ½ oz., 60c.; oz., \$1.00; ¼ lb., \$3.25; lb., \$12.00.

PLACE YOUR ORDERS NOW

Stumpp & Walter Co

30-32 BARCLAY STREET
Dept. C.
NEW YORK CITY

OUR EXHIBIT OF GERMAN IRIS

Won FIRST PRIZE at the
International Garden Club, Summer Show, Pelham Manor
June 1-4, 1916

JOHN LEWIS CHILDS, INC.,
FLOWERFIELD L. I., N.Y.

CARNATIONS

Field Grown

ENCHANTRESS SUPREME. EUREKA
WHITE WONDER. PINK DELIGHT.
\$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL,
MATCHLESS,
\$7.00 per 100; \$55.00 per 1000.

LADY NORTHCLIFF, PINK WINSOR,
WHITE WINSOR.
\$6.00 per 100; \$50.00 per 1000.

WOOD BROS., FISHKILL,
N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ELMER D. SMITH & CO.'S CHRYSANTHEMUM

Ask for Catalogue

ADRIAN, - - - MICH.

CHARLES H. TOTTY

CHRYSANTHEMUMS
MADISON, N. J.

LILY BULBS

RALPH M. WARD & CO.
71 MURRAY ST., NEW YORK

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.
WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.
ROOSEVELTS—\$5 per 100, \$40 per 1000.
BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

HOLLAND GROWN BULBS

HYACINTHS, TULIPS, NARCISSUS, ROSE BUSHES, ETC.

Write for information about the *Mammoth Auction Sales* that we will hold during the coming Fall Season, of Holland's latest and choicest varieties

THE MacNIFF HORTICULTURAL COMPANY

52, 54 and 56 Vesey Street The Largest Horticultural Auction Rooms in the World NEW YORK CITY

POT GROWN STRAWBERRY PLANTS

Splendid stock of vigorous young plants in leading varieties. Also Everbearing Superb and Progressive Plants ready now.

Prices: Standard varieties, 50c. a dozen, \$3.00 per 100, \$25.00 per 1000. Everbearing, 75c. per dozen, \$4.00 per 100.

WILFRID WHEELER

Telephone 154 W. Concord, Mass.

OLDEST AUCTION HOUSE

IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co

42 Vesey St., New York

A. N. Pierson, Inc.

CROMWELL, CONN.

Bedding Plants and Roses

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, N. Y.

BOXWOOD

in bush, pyramid or standard shapes, for Fall delivery, from
The Terra Nova Nurseries at Aalsmeer, Holland
the largest and best growers. The new **TRADE CATALOGUE**
now in print will be mailed shortly by their American Agents.

AUGUST ROLKER & SONS, 51 Barclay St. or **NEW YORK**
P. O. Box 752

TREES

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties. Sturdy, choice stock that can be depended upon. Send for catalog and special trade prices.

The Bay State Nurseries
North Abington
Mass.

SHRUBS

This New England soil and climate produces fine sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate.

REMEMBER!

If it's a Hardy Perennial or so called Old Fashion Flower worth growing, we have it in one shape and another the year round. We have the largest stock in this country, all made in America, and our prices

will average 75c. per doz., \$5.50 per 100.

Why say more here? Send for our Wholesale Price List of varieties and benefit from the opportunities this affords you. Address

PALISADES NURSERIES, Inc.

R. W. CLUCAS, Manager.

SPARKILL - - N. Y.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. F. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jano St. Woburn Heights
P. O. No. 1, Hoboken N. J.

In Stock ROSE STAKES

EXTRA STIFF No. 9 GALV. WIRE
4 feet—\$11.90 per 1000.

CARNATION SUPPORTS

\$18.00 per 1000 plants.

THE CARNATION SUPPORT CO., Connorsville, Ind.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
HATBORO, PA.

BOBBINK & ATKINS

Nurserymen, Florists
and Planters

RUTHERFORD, NEW JERSEY

ANGLIN & WALSH CO.

Williamsbridge, N. Y.

Send for Monthly Plant Bulletin

HILL'S EVERGREENS

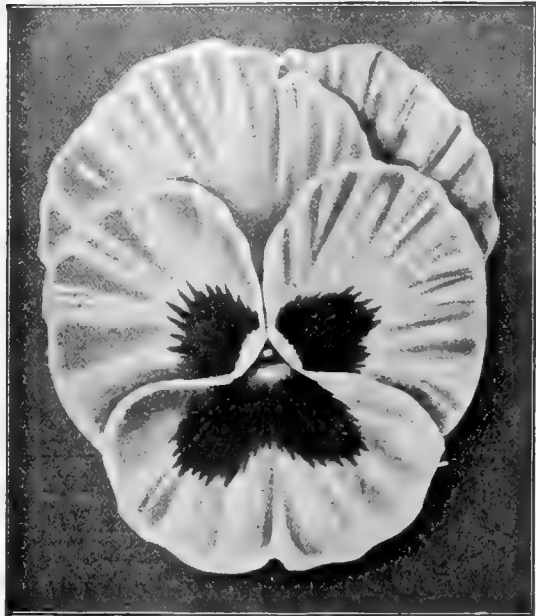
BEST FOR OVER HALF A CENTURY.
Small, medium and large sizes supplied.
Price list now ready.

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers in America.
BOX 415, DUNDEE, ILL.

In writing to Advertisers kindly mention Horticulture

New Early Flowering Giant Pansies Or Winter Blooming



An entirely new and distinct strain of Pansies. The main advantage of these new Pansies over all hitherto existing Pansies is the extreme earliness of flowering and its unusual hardiness, which enables them to withstand quite severe Winters, and to bloom right on into the Summer. Sown at the same time as other Pansies, they begin flowering the early part of March or as soon as the snow is off the ground, many times having four or five large flowers to a plant, when all other Pansies are only showing buds. The flowers are large, well formed and fragrant. They are highly recommended for Autumn planting on graves, and for very early bedding, as well as for early cut flowers.

14. **WINTER SUN.** Golden yellow with dark eye.
15. **ICE KING.** Silvery white with dark blue eye.
16. **CELESTIAL QUEEN.** Light or sky blue.
17. **CHARM OF MARCH.** Dark velvety blue.
18. **MIXED.** The above four colors with other shades and variations.

EACH COLOR SEPARATE OR MIXED.

500 seeds 50c., 1000 seeds \$1.00, 1/8 oz. \$2.00, 1/4 oz. \$3.75, 1 oz. \$15.00.

For list and price of other Kenilworth Pansy Seed see my ad of July 29.

FREE OFFER RAINBOW is a mixture of the most beautiful, gorgeous colors, blotched, striped, veined, margined, etc. With every \$1.00 worth of Pansy seed I will send, free, 1000 seeds of Rainbow and with other amounts in like proportion.

Chas. Frost
Kenilworth,
N. J.

FERNS IN FLATS

Eight Best Varieties—200 Clumps to a Flat

\$2.00 per flat; 10 or more flats, \$1 90 each

A. M. DAVENPORT, Watertown, Mass.

CONVENTION NUMBER

HORTICULTURE'S Annual S. A. F. Convention Number will be issued on August 19, 1916. Its Account of the Houston Proceedings will be eagerly looked for by thousands of readers.

YOUR ADVERTISEMENT

in this special issue will command the attention of

THE BEST TRADE

SEND COPY NOW

MAKE A STIR

LILY BULBS

Fall Shipment from Japan

Prices quoted F.O.B. New York, Chicago, Denver, San Francisco and London (Ont.)

Write for quotations stating quantity, variety and size required.

McHUTCHISON & CO. The Importers
95 Chambers St., New York

ORCHIDS

CONSERVATORY PLANTS
BEGONIAS

Lorraine, Cincinnati and Mrs. Peterson

JULIUS ROEHRS CO.
Rutherford, N. J.

ORCHIDS

Just received a grand importation of Lycaste Skinnerii. We also carry a choice line of established plants at all times. Write for prices now.

PAUL DE NAVE

ORCHID GROWER.

Tel. Connection. FALL RIVER, MASS.

ORCHIDS

We grow and sell nothing but ORCHIDS. If you are in the market for this class of plants we respectfully solicit your inquiries and orders. Special lists on application.

LAGER & HURRELL, Summit, N. J.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Care of Poinsettias

Loss of foliage on poinsettias is due to several causes, such as too low a temperature, excessive feeding and too much or too little moisture at the roots. Be sure to give good drainage. If once they get water-logged, the foliage will soon turn yellow. Plunging the pots in ashes is the best way to put an even amount of moisture at the roots. If kept quite close to the glass, well ventilated and watered carefully, they will not grow too tall, nor will they lose their foliage. Grow in full sun, as the least bit of shade makes them draw up. Give good syringing every day which will help to keep them clean. Spread them out from time to time so they will not become crowded. Short stock for baskets, etc., can be propagated up to the middle of September.

Primulas

Pick off any flowers which appear and do not allow the plants to become pot-bound. There is more danger of this occurring with the robust growing *P. malacoides* and *P. Kewensis* than with the more moderate *sinensis*, *stellata* and *obconica*. Usually 5-inch and 6-inch pots are suitable for *obconica* and *sinensis*. Give them a compost of fibrous soil three parts, old cow manure two parts and the same of leaf mold with a little sand. Watering must be done once, twice or perhaps thrice a day, unless the pots are plunged. The sashes should be removed after four o'clock in the afternoon—in fact, they are not needed at all, except during heavy rains, so long as lath shading are used and frost keeps away. The night dews greatly benefit the plants and during hot days they should be sprayed over several times. See that they do not become crowded; give them plenty of room.

Mignonette for Midwinter

A compost such as is used for carnations or chrysanthemums will grow excellent mignonette. They can be grown on either solid beds or raised benches. If on the latter be sure they are not near the heating pipes below, for mignonette loves a cool, moist bottom. If the soil has been in the benches for some time and has been scratched over two or three times to kill out weed seedlings, so much the better. It is important to have a first-class strain of seed, such as is offered by a number of the leading seedsmen. Sow the seed, several together, in little batches fourteen or fifteen inches apart each way. It is easy to thin out the bad ones later. Mignonette must have a cool house. 40 degrees at night should be the winter minimum, and it wants all possible light and plenty of water at the roots. The finest mignonette

spikes are always produced in the coldest months, and February sees this plant at its best.

Paper White Narcissi

These are not much in demand while chrysanthemums are in season, but sell well later. But if the flowers are all for home consumption it will be well to have a few flats started each week, allowing large batches, of course, for such occasions as Thanksgiving and Christmas. Paper White bulbs are now coming to hand and though they have often been in oversupply in the wholesale flower markets, they are inexpensive, easy of culture, can be flowered over a long period, and are, all in all, among the most useful late fall and winter flowers for the average country florist. Paper Whites do not require to be kept in the dark or covered with ashes, as the bulk of bulbs do. They start to root and grow quickly and can, if necessary, be had in flower before November 1. They can be placed in a frame and left out until the end of September, when they can be brought in and forced into flower in a temperature of 55 to 60 degrees.

Preparing Soil

The present is a good time to look to the turning over and preparing of the soil to be used for benches, etc. The compost should have been got together some time ago, but should be turned over and well broken up now, so as to be in readiness when wanted. It is necessary that it be finely chopped so that the ingredients are evenly mixed. If barnyard manure was put in at the time it was stacked up nothing else will be necessary. Bone meal or tankage—the latter a mixture of blood, bone and the waste from slaughter houses, which is dried and then finely ground up—we have found very good for this purpose. Either of these, added to the compost at the rate of about fifty pounds to the yard of soil will make a good strong soil and also has the advantage of causing the compost to heat sufficiently.

Reminders

Stir the surface of carnation benches frequently.

Feed all early chrysanthemums liberally until they show color.

Cuttings of *Pandanus Veitchii* and *P. Sanderi* will root readily in a couple of weeks.

In pruning pelargoniums head back to within a few eyes of the old wood, but no farther.

When transplanting mignonette from small pots see that they are well soaked before planting.

Next week—Cattleyas; Freesias; Lorraine Begonias; Nephrolepis; Plants for Christmas; Reminders.

BOOM YOUR BUSINESS

by advertising your goods in the

Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

HORTICULTURE

VOL. XXIV

AUGUST 12, 1916

NO. 7

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 147 Summer Street, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

Entered as second-class matter December 8, 1904, at the Post Office
 at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Jackson Thornton Dawson, portrait.	
NOTES ON CULTURE OF FLORISTS' STOCK—Care of Poinsettias—Primulas—Mignonette for Midwinter—Paper White Narcissi—Preparing Soil—Reminders—John J. M. Farrell.	199
JACKSON DAWSON, IN MEMORIAM—C. S. Sargent—E. H. Wilson—W. A. Manda—T. A. Havemeyer—Patrick O'Mara—E. T. Mische.	201-202
PYRETHRUM ULIGINOSUM—Richard Rothe—Illustrated.	202
OBITUARY—Jackson Thornton Dawson—John Charlton—Mrs. George C. Shaffer—Richard Brett—Eugene S. Hinckley.	203-204
CLUBS AND SOCIETIES—Coming Exhibitions—Garden Club of Allegheny County—Horticultural Society of New York—American Rose Society—Holyoke and Northampton Gardeners' and Florists' Club.	204
Wisconsin State Horticultural Society—Gladiolus Exhibition in Boston—Gladiolus Society of Ohio—Society of American Florists—Houston Convention Rates—Famous San Jacinto Battlefield, Illustration—Florists' Club of Philadelphia—Club and Society Notes.	205
COLOR STANDARDIZATION—D. F. Kerr.	206
SEED TRADE—One Week's Imports—British Prohibit Bulbs by Parcel Post—Those Seductive Catalogues—Miss Gertrude E. Skinner.	210
OF INTEREST TO RETAIL FLORISTS:	
New Flower Stores.	212
Flowers by Telegraph.	213
Brides Bouquet of Sweet Peas—Illustration.	215
Cleveland Florists Plan Co-operative Display.	215
NEWS ITEMS FROM EVERYWHERE:	
Washington, New York, St. Louis, Pittsburgh, Boston, Notes.	214
DURING RECESS—Buffalo Florist Club—St. Louis County Picnic.	215
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago, Cincinnati, New York, Philadelphia.	217
Pittsburgh, St. Louis, Washington.	219
THE GREENHOUSE SALESMAN PAST AND PRESENT.	224
WHEN EMPLOYEES, COLLECTORS OR AGENTS HOLD OUT MONEY—Elton J. Buckley.	225
MISCELLANEOUS:	
Mold in Mushroom House—George C. Watson.	204
Go Down Among the Flowers.	204
Along About Now—Poetry.	204
The Pawpaw.	209
Lilium canadense—Illustrated.	209
Catalogues Received.	210
Business Troubles.	212
News Notes.	212
Visitors' Register.	219
Personal—New Corporation.	219
A National Flower—C. S. Harrison.	219
Greenhouses Building or Contemplated.	224
In El Paso, Texas.	225

mented not long ago on the recent change in policy of the American Association of Nurserymen whereby it now becomes a trade institution wholly to the exclusion, practically, of altruistic or educational purpose. This ideal was carried out in the Convention, which from the standard of a trade organ appears to have been a very successful affair and, as *The National Nurseryman* states, "It is very doubtful if a nursery employee is eligible to membership in the National Association under the present policy; at least there is no effort to encourage him to become one." We might here assure the young man wishing to profit by membership in an association working on helpful lines that the Society of American Florists and Ornamental Horticulturists is such an organization and there are no trade or class barriers to active membership or official preferment therein. Mere membership in any organization, however, cannot make intelligent skilled workmen nor can any association or institution of horticultural learning take the place of practical training in the field and the potting shed, but if "more loyal, earnest, real plant growers" are to be provided, the societies can do much to help and encourage the ambitious young man, bringing him into personal contact with the men who have made a success of their business, and under influences which tend to develop intelligence, self-respect and emulation to excel.

A master spirit gone

The news of the death of Jackson T. Dawson occasions profound sorrow. Jackson Dawson was a rare genius. He left to mankind a priceless legacy. Forests that had their birth under his vigilant care will flourish and the gardens, not only of this country but of the whole world, will for ages bear his imperishable impress. The Arnold Arboretum could never have become what it is without Dawson. He grew up with it and it grew up with him. Close, very close was this man to Nature's heart for he was a child of Nature and she to him was a goddess. Whether trudging through the wilderness in never-wearing quest, sowing with unerring intuition the strange seeds that came to him from the ends of the earth, or deftly performing delicate operations in plant propagation, Nature's secrets were for him always an open book and he understood.

It was natural that a man of such potent mentality should irresistibly draw his fellow men about him. His picturesque physique and rugged personality made him conspicuous wherever he went. He has been aptly called "the Walt Whitman of horticulture." But, in the qualities that made him a man among men and made his life a benediction, above all was his overflowing kindness of heart. This character was beautifully exemplified in his affectionate pride in his children. No words were too strong to express his faith in them, no personal sacrifice too great for him to make in their behalf. To others he gave unstintingly from the well-spring of a heart overflowing with generous impulse and he was ever ready to impart freely of the knowledge he had stored up during his busy life.

Is it any wonder that Jackson Dawson was loved and venerated, that men wept and turned away shaking with grief as they looked for the last time upon the features of one who was to them "the porcelain clay of human kind?" "Guide, philosopher and friend" he was to many of us. We shall miss him so much, and the world will be so lamentably poorer without him, but there is comfort in the thought of having lived in his time, of having known him intimately and enjoyed his companionship and loved him as but few men ever love another.

Opportunity knocks

An editorial note in *The National Nurseryman* calls attention to the great need for more skilled help in the nursery business in this country and intimates that the matter might have been properly brought before the Convention at Atlantic City, which it was not. We com-

JACKSON DAWSON — IN MEMORIAM

To an audience of gardeners it is not necessary to say that Jackson Dawson was a great gardener for that is known to all men who cultivate plants, but the friendship between us which has lasted for more than forty years and brought us into almost daily association makes it possible for me to say something of Dawson as a man. In all these years he and I have been engaged in forming the museum of trees which is known as the Arnold Arboretum. This has been his life work as it has been mine, and to this work Dawson brought industry, enthusiasm, imagination and high skill. The number of plants which he raised for the Arboretum and for its correspondents and friends is surprising. His plants are now widely scattered in many countries, and in many countries they will long keep green the memory of Jackson Dawson—kind friend, untiring in his devotion to duty, fortunate in the reputation which his skill and success brought him, happy in the labor which he loved and in the development of the great garden which he saw, through his labors, gradually grow in usefulness and beauty, and rich in friends who loved him.

C. S. Sargent

Death the Reaper is ever busy. He spareth neither our nearest nor dearest, friends nor foes. Each hour, each second he busies himself making sorrow in families and gaps in living friendships. Each and all as they journey through life are made familiar with the Reaper's scythe and in due season all fall before it. Some early, some in their prime, others late; some at the threshold of their life-work, some at its hey-day, others, and these are the fortunate few, not before the fruition of their labors is apparent to all the world. In this latter category of the select and worthy few belongs our loved friend Jackson T. Dawson who fell asleep on the afternoon of Thursday, August 3rd. Rich in friends, held in honor by all who knew him, fortified with the knowledge of a useful and well spent life he passed into the beyond in the closing days of his seventy-fifth year. Quietly he was beckoned and without pain and with a smile of content the summons was answered. From the early days, when he laid aside for a while the tools of his peaceful art to grasp those necessary to defend hearth and home and to help safeguard his adopted country and subsequently unto the end Jackson Dawson ever answered with promptitude the call of duty. With never a thought of self, but with all his energy and genius concentrated upon the work on hand he lived his life and wrought much for the good of the world and for the advancement of the art and science of Horticulture.

On the afternoon of Sunday, April 8th, 1899, more than seventeen years ago, my first knock at the door of his home was answered by his hearty "come right in." The phrase was new to me but it carried a welcome to my heart's ease. I was then a bird of passage, but the few days I spent in the Arnold Arboretum in Jackson Dawson's company were more than ordinarily profitable to me. He, in that generous way of his, showed me all over the establishment and I was astonished and bewildered at what I saw, more especially at the size of the

shrubs and trees raised from seeds, cuttings or grafts by the skilled craftsman who was my guide. So much so in fact that when we came to the Hemlock grove I asked in all innocence "Did you plant those trees too?" Those eyes of his flashed and I could feel their piercing power as he replied "No, God Almighty planted them!" After an interim of seven years the fates brought us together again and have not only allowed me to grow in knowledge and appreciation of our friend, but have also forged a strong bond of fellowship and communion. Others have known him a lifetime and all hold him in affection and esteem, the depth of which it is not possible to adequately express. He has passed from our ken, but in the legacy he has left behind all may share and in the Arnold Arboretum, which he has helped so much to build, there remain lasting monuments to his skill, his energy and his patient perseverance. And not alone in the Arnold Arboretum will the results of his work abide, but in the gardens of his many friends rich and poor, in the city parks of this country from east to west, in Europe and in Australasia there are growing today many, many trees and shrubs from seeds sent or from plants raised by him. I mention trees and shrubs but his affection in the matter of plants embraced every kind—moss and fern, tiny rock plant and strong herb, minute alpine from the limits of the Arctic flora, tropical wonder, desert curiosity, the latest novelty, the old time favorites from New Holland and the Cape of Good Hope. He loved them all and what joy there was in hearing him talk on these his loves!

Few men had as many real friends as Jackson Dawson and none deserved them more than he; full to the overflowing with the milk of human kindness his heart was larger than his frame. Many, very many will miss him but the memory of his enthusiasm, his genius and his example will remain as a lode star on the sea of life. He was a man in the world of men and whatsoever his hand found to do he did it with all his might. Happy and blessed are those of whom this can be said and proud must be the family who call such a man as Jackson T. Dawson father. To the fullness of my capacity their grief I share and with them his memory I shall cherish and revere unto the last.

F. W. Wilson

The horticultural world has again to mourn the loss of one of the greatest workers for its uplift, for during the past half century there was no man either on this or other Continents that had a better knowledge of trees, shrubs and other hardy plants than did the deceased. His botanical knowledge and of the history of these plants was remarkable, and while as a propagator he so often labored under the most adverse conditions, there was never a man that could compare with him, and a great many of the plants in the Arnold Arboretum will stand as monuments of his skill and tender care, as he resurrected their last spark of life when received from their foreign habitats either in the shape of seeds, plants, grafts or cuttings. A great many of these plants would have been left in oblivion had they been received and cared for by ordinary hands. Jackson Dawson was personally genial, unassuming, hard working, and always willing to impart to his fellow-

men his knowledge of the art of plant cultivation and propagation, and to inspire them with some of his great love for these things.

Those who personally were fortunate enough to know this grand man their sorrow will be very deep and, as for myself, having known and associated with him for over thirty-four years, at his demise I fail to find words to express my sorrow.

So. Orange,
N. J.

W. M. Mandy

It is with the greatest sorrow that I hear of the passing away of Jackson Dawson on the 3d of August. His death will be a great loss to the Arnold Arboretum and to Horticulture in general and I doubt if his unique position can ever be filled by anyone else. I shall personally miss him greatly as it was always a great pleasure for me to talk to him. His knowledge of plants and their requirements was very great and his expertness in the propagation of trees, shrubs, etc., was most extraordinary. The most difficult plants to multiply had no secrets from him. It is most unfortunate that he leaves no written record of his work. When it is realized that the great majority of the trees and shrubs in the Arnold Arboretum have been propagated by him the extent of his work can be understood. He has at any rate left a magnificent monument to his memory in the great number of fine trees in the Arnold Arboretum today that he has cared for from the day the seed germinated. It can be truly said that "His memory will be kept green."

John W. Mandy

New York.

I was very sorry indeed to learn that our good friend, Jackson Dawson, had passed away. His place in horticulture will be very difficult to fill. I might say almost impossible, at least in this generation. His like is not born every day, and, in his passing, a figure has vanished which occupied a large space in the horticulture of the United States—I might say in the world. His lovable, kindly spirit will be missed very much by those who had the pleasure and privilege of knowing him and meeting him now and then.

Patrick O'Mara

New York.

Dear Mr. Stewart:—

Since Wilson wrote that appreciation on Jackson Dawson last January, I have been several times minded to write and thank you for scattering roses along the evening walk of one we all loved so dearly, and lo! I have just received a message that he passed away. I count the friendship of Jackson Dawson among the richest treasures I have owned. Always so true, affectionate, loyal and magnanimous he was indeed a friend in the true sense. For over twenty years I grew up close to his family and feel I know him intimately and it is a knowledge that increases his measure. For your timeliness and goodness in publishing that tribute I wish to cordially thank you in brightening the way of our mutual friend.

Portland,
Oregon.

E. N. Mische

Pyrethrum uliginosum



The Giant Daisy, *Pyrethrum uliginosum*, is a native of eastern Europe. In standard works and catalogues we find it differently described and listed. Sometimes it is classed among the chrysanthemums; again there are authors who insist on the name *Leucanthemum uliginosum* as being the correct one. Practical horticulturists well acquainted with hardy herbaceous plants agree on its merit as a very effective midsummer flowering perennial for the border. Reaching a height of about 4 feet, an abundance of large white flowers on erect slender stalks stand out boldly and when grouped in clumps of the size indicated by our illustration can be easily made a conspicuous feature of floral garden arrangements. As fitting associates I mention Japanese anemones and hardy asters of the novae-angliae type, preferring pink and lavender shades. In cases where a more dashing color effect is desired I would not hesitate using tritomas of the Pfitzerii, sulphurea or uvaria grandiflora varieties in combination.

I am told that the giant daisy frequently does not come up to expectations. The reason for this is that we do not know the full cultural requirements. A moderately moist location is the ideal one. *Pyrethrum uliginosum* must have a free sunny exposure, rich soil and plenty of water. Plantations stunted in growth during early droughts will not produce good flowers.

I wish to call attention to the comparatively new variety *Pyrethrum uliginosum stellatum*, originating in the nurseries of Henry A. Dreer. The flowers of *stellatum* are of decidedly larger size than those of its parent. It is also distinguishable by its long narrow petals adding grace and a certain refinement to the form of the flowers.

To prevent exhaustion of the soil a mulching of old barnyard manure over winter as protection is especially recommendable for giant daisy plantations. Plants may be raised from seed sown in cold frames during April and May. Propagation by root division, however, is the quickest way to increase stock.

Glenside, Pa.

Richard Rothe

Obituary

Jackson Thornton Dawson.

Jackson Dawson, superintendent of the Arnold Arboretum, Jamaica Plain, Boston, Mass., died at his home on Centre street, on Thursday afternoon, August 3. He was in his 75th year. It is fully two years since Mr. Dawson's intimate friends noticed that his rugged health had begun to weaken, but it was only last April that the seriousness of his condition became apparent. From that time on his health failed rapidly and it finally became apparent that it was a question of but a short time until the career of the eminent gardener must come to its close. He continued to attend to his duties, however, so far as his strength permitted, almost till the last. He was unconscious for several hours before his death and the end came peacefully.

Mr. Dawson was born in East Riding, Yorkshire, Eng., October 5, 1841. He came with his mother to the United States as a child, and when he was 8 years of age he was started in gardening in the nurseries of his uncle at Andover. At the outbreak of the Civil war he enlisted and served for three years in Co. G, 19th Massachusetts Infantry. He was several times wounded and it is said that some of his wounds were received while in quest of plant specimens and seeds, a pastime in which he had been passionately interested from childhood.

After his discharge in 1864 he went to work in the nurseries of Hovey & Co., at Cambridge, where the patient, devoted young student found ample opportunity for the indulgence of his enthusiasm and indomitable energy in the realm of botanical classification, geographical distribution, propagation and cultivation of plants. His introduction to the public came through his recognition of the Scotch heather which had been growing wild in Massachusetts and his making the fact known to the world.

In 1871 Mr. Dawson was offered a position under Francis Parkman of the school of horticulture of the Bussey Institution. Then, after two years, Professor Charles S. Sargent took the place of Mr. Parkman, and a little later became director of the Botanical Gardens of Cambridge. Mr. Dawson supplied him with plants for the gardens, and thus became familiar with plants from all parts of the world.

The Arnold Arboretum was started shortly afterward and Mr. Dawson became identified under Professor Sargent with this undertaking and did his part in the development of the institution up to its present proud position among the great tree gardens of the world. Here he accomplished many difficult and seemingly impossible feats in grafting, seed germination and complicated culture, and by studious hybridization produced many new and valuable plants, among which the Farquhar, W. C. Egan, Dawson, Lady Duncan and Sargent roses are perhaps the most widely known. His practical knowledge of hardy trees and shrubs was second to none. World-wide recognition as one of the most accomplished gardeners of his time was given by the award to him

in 1911 of the George Robert White gold medal of honor for achievement in horticulture.

On Dec. 1, 1866 Mr. Dawson married Mary McKenna. Eight children were born to the union, six of whom survive him. They are William Francis, George Walter, James Frederick, Henry Sargent, Miss Laura Blanchard Dawson and Mrs. Harold Blossom.

For many years Mr. Dawson has been an active member of the Massachusetts Horticultural Society and a frequent exhibitor of hardy material. He was a past president of the Gardeners' and Florists' Club of Boston and a member of the Horticultural Club of Boston. Also was for a number of years a member of the Society of American Florists, serving on its executive committee in 1895-6-7.

The funeral at St. Johns' Church on Saturday, was largely attended by horticultural people from Greater Boston and others from distant points. Among those from other states we noticed W. A. Manda, South Orange, N. J.; W. O. Roy, Montreal, Canada, W. W. Harper, Chestnut Hill, Pa.; Mrs. Timothy McCarthy, Providence, R. I.; Leonard Barron, Garden City, N. Y.; C. W. Hoitt, Nashua, N. H.; A. E. Thatcher, Bar Harbor, Me.; Rudolph L. Roehrs, Rutherford, N. J.; and there would have been many more had it not been for the unavoidably short notice. The honorary pall bearers were Charles S. Sargent, Ernest H. Wilson, Charles W. Hoitt, B. T. Watson, J. K. M. L. Farquhar and W. W. Harper. A large number of beautiful floral tributes were sent by loving friends in the profession, the florist trade and other walks of life. Burial was at Andover, Mass.

The Arnold Arboretum was closed during the time of the funeral.

John Charlton.

John Charlton, aged 80, one of the best known florists and nurserymen in western New York died on Wednesday morning, August 2, following an illness of six months at his home, 629 Culver road, Rochester, N. Y. In 1869 the late Mr. Charlton introduced *Ampelopsis Veitchii* into the United States. In 1873 he propagated the Peter Henderson tree carnation the introduction of which variety marked an epoch in the history of the carnation. He also introduced the Pocklington grape and the Golden Prolific gooseberry. He helped to introduce the James Vick strawberry. Deceased also was among the first to grow hardy grapevines for market and was well known as an expert grower of fuchsias. The firm of John Charlton & Sons is prominently known for the growing of roses, flowering shrubs and peonies.

The late Mr. Charlton was born November 19, 1835, in Horningsham, Wiltshire, England, and received his education there in the village school. He always had been fond of plants and flowers and his love for them guided him to the profession of gardener and afterward that of nurseryman. When 17 years old he was apprenticed at the gardens of Longleat, the county seat of the Marquis of Bath, which was then as now one of the show places of England. Young Charlton was chosen for this position out of twenty-four applicants. The first year of his apprenticeship Mr. Charlton

spent among the fruit trees and wall fruits. The second year he was in the flower garden and during the third year in the forcing house where he learned how to grow fruits under glass. At the termination of his three years he left Longleat and went to the island of Guernsey where he took charge of the garden of Peter De Jersey. In the fall of 1856 he came to the United States, landing in New York a few days after reaching the age of 21. The first winter he spent in Toronto, Can., but in the following spring he came to Rochester where he has lived ever since.

In Rochester Mr. Charlton first was engaged by the late George J. Whitney director of the N. Y. Central R. R. remaining with him until the fall of the following year when he went with Joseph Hall, horseman, miller and agricultural implement maker, remaining in the latter position until Mr. Hall's death six years afterward when he resolved in 1865 to venture into business for himself. He secured two acres of land and constructed a greenhouse, afterward replacing it with some that were larger. From time to time he added to his land until he had about 150 acres under cultivation. When his sons, John A and Joseph M. Charlton became old enough he associated with them under the firm name of John Charlton & Sons. Deceased leaves his wife, Sarah Charlton, his two sons, two daughters, Mrs. W. B. Kerr and Miss Margaret Charlton, and three grandchildren. Funeral services were held Friday afternoon, August 4, and interment was in Rochester, N. Y.

Mrs. George C. Shaffer.

It was with a great deal of regret that the many friends of Mrs. George C. Shaffer, wife of George C. Shaffer, Washington, D. C., learned that she had passed away early on Sunday morning following a prolonged illness. Although it was known that her illness was of a very serious nature, nevertheless her death was a shock to all who knew her. Mrs. Shaffer was of a most lovable type of woman. It was her pleasure to make conditions enjoyable for her friends. At the head of the ladies' auxiliary of the Florists' Club of Washington, D. C., and as an active member among the ladies of the S. A. F., she won many friends. She was the life of many of the enjoyable affairs in which the ladies participated, especially the outings of the Florists' Club where she entered into many of the games and was usually picked as a winner. She was an adept in the sports in which women enter and on the bowling alleys she showed great skill.

Mr. Shaffer has the full sympathy of every member of the trade, not only of Washington but of the surrounding territory, and HORTICULTURE and its correspondent wish to offer to him their most profound sympathy.

Richard Brett.

Richard Brett, a well-known gardener of the old school, died on Sunday, July 23, at Morris Plains, N. J., and was buried at Morristown. Among the positions which Mr. Brett had filled was that of gardener to James R. Pitcher; then foreman to Pitcher & Manda; afterwards he had charge of Mr. Colgate's place in Yonkers, N. Y.;

then Mr. Jenkins' at Llewellyn Park, West Orange, N. J., and later Mr. Peters' place at Islip, Long Island. Mr. Brett's son has just taken a position as assistant at Greystone, Yonkers, N. Y.

Eugene S. Hinckley.

Eugene S. Hinckley, chairman of the Park Commission of Haverhill, Mass., died on August 6, in his seventieth year. He was a native of Gardiner, Me.

MOLD IN MUSHROOM HOUSE.

Editor HORTICULTURE I am coming for assistance for a mold on my mushroom that spreads through the beds. I think probably it comes from the spawn. I have changed from one firm to another, thinking it would help. My mushroom houses are built of concrete throughout, roofing and all, and are about three feet below the ground, eight feet high inside. But my shelving is made of wood so it can be removed when emptying houses. I am going to disinfect walls and all shelving with coal tar preparation. Do you think this will kill this mold? If not, could you give any information on same?

I wrote to the government about this mold and they said that some firms are putting spawn on the market that is affected with mold. Could you give an address of some reliable firm that has good spawn?

E. C. P.

Kentucky.

A thorough cleansing of the mushroom house every season is absolutely necessary in successful mushroom culture. In summer, when it does not pay to raise mushrooms indoors, is the time to clear everything out and lime-white the walls and scrape and clean every surface; opening up the house to a free circulation of air. Left thus open for a couple of months the house will be well sweetened and there will be no trouble with fungus. Get mushroom spawn from a first-class seed house—those who advertise in HORTICULTURE are all reliable.

GEORGE C. WATSON.

GO DOWN AMONG THE FLOWERS.

Will you not go down among them? Among those sweet living things whose new courage sprung from the earth with the deep color of heaven upon it, is starting up in strength of goodly spire; and whose purity washed from the dust is opening, bud by bud, into the flower of promise; and still they turn to you and for you, "The Larkspur listens—I hear, I hear!—And the Lily whispers—I wait." —John Ruskin (Sesame and Lilies) 1819.

The devil is mortally afraid of roses and larkspurs and lilies given to us for joy and the healthy love of the out-of-doors. Go down among the flowers, my children. McTAVISH.

ALONG ABOUT NOW.

Put by the work you are at for awhile,
Take a day off.
Go where the fields in their loveliness smile,
Take a day off.
Stray where earth's beauty is lavishly strewn,
Drink in the light of the sun—and the moon—
Put all the chords of your being in tune,
Take a day off.
Brain that is weary and heart that is worn,
Take a day off.
You who the burdens have patiently borne,
Take a day off.
Go to the seashore, the mountain, the lake,
All of the tasks that surround you forsake,
Or sometimes a "breakdown" may force you to take
A lot of days off.

—Boston Traveler.

CLUBS AND SOCIETIES

COMING EXHIBITIONS.

August 15-18, Houston, Texas. Trade Exhibition in connection with S. A. F. Convention.

August 24-25.—Lewiston, (Me.) Annual Flower Show, Gardeners' Union, Lewiston City Hall.

August 3, Oyster Bay, L. I., N. Y.—Dahlia Show, Oyster Bay Horticultural Society.

August 11-12-13, Boston.—American Gladiolus Society, Horticultural Hall.

August 24, Worcester, Mass.—Gladiolus Exhibition.

Sept. 2-9, Cleveland, Ohio.—Industrial Exhibition and Fair.

Syracuse, N. Y., Sept. 11-16.—New York State Fair.

Sept. 12-13, Providence, R. I.—Rhode Island Horticultural Society, Narragansett Hotel.

Sept. 11-16, Syracuse, N. Y.—Seventy-Sixth Annual New York State Fair.

THE GARDEN CLUB OF ALLEGHENY COUNTY.

A great Flower Show will be held in Pittsburgh in June of 1917, under the auspices of The Garden Club of Allegheny County. The proposed date is June 13th to 16th.

One of the largest and most centrally located halls in Pittsburgh will be engaged wherein to make the display. The plan and scope of the exhibition will be of the most comprehensive character. The choicest products of the many fine gardens in Pittsburgh and vicinity will be displayed in competition to an extent never before attempted in that city.

An opportunity will also be afforded to florists, nurserymen, seedsmen and other allied trades to participate therein. A preliminary schedule offering \$5,000.00 in prizes is now being drafted. This will be sent out to gardeners, growers and everyone interested as soon as possible so that they may have ample time to grow and prepare their exhibits.

Arthur Herrington of Madison, New Jersey, who has so successfully managed and arranged recent large exhibitions in New York, Newport and other places, has been engaged as manager.

HORTICULTURAL SOCIETY OF NEW YORK.

This society will hold an exhibition on Saturday and Sunday, August 19 and 20, in the museum building, New York Botanical Garden, Bronx Park, New York City. It will be mainly a gladiolus show, but premiums are also offered for Montbretias and also collections of annual flowers. The exhibition committee is also authorized to award prizes for exhibits not included in the regular published schedule of premiums. Such exhibits will be welcome. Schedules are now ready for distribution and will be sent on application to the secretary, George V. Nash, New York Botanical Garden, Bronx Park, New York City.

GEORGE V. NASH, Sec'y.

AMERICAN ROSE SOCIETY.

The following new roses have been registered with the American Rose Society:

By Frank L. Moore, Chatham, N. J., Muriel Moore. The flower is white; when in bud it is a bluish white. The bud is longer than that of My Maryland and not quite so double. The foliage is distinctly different, the leaflets having a rich green color; are narrower and have edges more finely serrated; in fact, the edges are almost smooth. It is a profuse bloomer.

By Howard & Smith, Los Angeles, Cal., Los Angeles. Color flame pink shaded to yellow, toned with salmon. Foliage light green, extra heavy. Buds long and pointed opening to a bloom of large proportion. A cross between Madame Second Weber and Lyon Rose. Growth exceedingly vigorous; has none of the die-back habits of Lyon Rose.

The Hartford Rose Test Garden Committee has made the following report:

The committee appointed to judge the new rose entries visited the Hartford Test Garden on July 5th. The varieties of this season's entry were not considered in condition to judge until better established.

Among those entered previous to this season, the following climbing roses were examined and received awards:

Dazzling Red—79 points. Entered by W. A. Manda.

Mrs. Longwood—78 points. Entered by Conard & Jones.

It was a source of gratification to the judges to note the splendid behavior of the varieties previously awarded silver medals, every one of which stood out conspicuously among the older entries.

WALLACE R. PIERSON,
ALEX. CUMMING, JR.,
JOHN F. HUSS,
BENJ. HAMMOND, Sec'y.

HOLYOKE AND NORTHAMPTON GARDENERS' AND FLORISTS' CLUB.

The regular meeting was held Aug. 1st at the establishment of R. S. Cary, South Hadley. H. E. Downer read an essay received from the National Association of Gardeners entitled "Horticulture as a Profession from the Standpoint of a Gardener," written by J. Johnson, New York. A most interesting discussion ensued.

G. W. Thorniley, florist at the State Hospital, read "Reminiscences of Bedding Plants," from which we gathered that some of the stock offered today falls short of the standard of quality obtainable in years past. This naturally started something and the discussion ranged all the way from the customer's pocketbook to the problem of obtaining experienced help. Mr. Thorniley also entertained us with his experiences on a recent trip to Florida. H. E. D.

WISCONSIN STATE HORTICULTURAL SOCIETY.

The annual summer meeting of this enterprising society will be held in Lake Geneva, Wis., on August 22 and 23. The meetings will be held in Horticultural Hall, a fine building belonging to the Gardeners' Association and well adapted to the purpose.

PROGRAM.

Tuesday, August 22nd, 10 A. M.

"Common Insect Pests of Garden and Orchard," J. G. Sanders, State Entomologist.
"Fungous Diseases of Garden Plants," R. A. Vaughn, Asst. Prof. Plant Pathology, College of Agriculture.

"The Fruit Bud," R. H. Roberts, Instructor in Horticulture, College of Agriculture.
Afternoon Session, 2 P. M.

"Perennials," Axel Johnson, Lake Geneva.
"Planting Rural Home Grounds," A. Martini, Lake Geneva.

"Roses for City and Country," W. J. Moyle, Union Grove.

Two papers or informal talks by delegates of the Milwaukee Florists' Club. Names and titles to be announced later.

"The Lake Geneva Trial Orchard," the Secretary.

"Strawberries, One Thousand Dollars an Acre," by the man who did it.

The Secretary is F. Cranefield, Madison. He tersely says:

"All papers or talks will be short, not over fifteen minutes each, ten minutes preferred, to be followed by questions and discussion. No special program has been prepared for the evening. If time is lacking to finish the afternoon program before supper time we will begin after supper where we left off; if there is nothing else to do we will go fishing.

The plan followed in past years of urging and begging members to attend will be abandoned mainly for the reason that it seems to be unnecessary. Further, it's a waste of energy. The regular program and the entertainment features are here outlined and if you go the assurance is given you will feel well repaid; if you fail to go it's your loss, no one else will lose. Now, it's clearly up to you.

Wednesday will be devoted to entertainment furnished by the Lake Geneva Gardeners' Association and "Lake Shore" residents.

Leave Lake Geneva by boat at eight-thirty A. M., stopping at several places enroute to Fontana where a light luncheon will be served at one P. M. After lunch, returning to Lake Geneva at four P. M., then by auto around the Lake stopping at Yerkes Observatory.

GLADIOLUS EXHIBITION IN BOSTON.

The gladiolus exhibition at Horticultural Hall this week will be of more than the usual interest for with it will be held the seventh annual exhibition of the American Gladiolus Society. The display of this popular flower is expected to be the most comprehensive ever brought together in this country. Most of the largest growers, both professional and amateur from Massachusetts to California will be represented, and the latest improved varieties will be shown. The exhibition, which is free, will open Friday, August 11, at noon, continuing through Saturday from 10 to 6 and Sunday from 1 to 6 o'clock. In addition to the gladiolus, collections of other seasonable flowering plants will be exhibited, as also early summer fruits and vegetables.

WILLIAM P. RICH, Sec'y.

POT GROWN STRAWBERRIES

Everbearing

30,000 PROGRESSIVE 10,000 SUPERB

200,000 Pot Plants

Now ready, of the very best varieties. Plants are guaranteed to be as fine as any grown. Write for varieties and prices.

ELIZABETH NURSERY COMPANY, .: ELIZABETH, N. J.

THE FAMOUS SAN JACINTO BATTLEFIELD.



A visit to which is a part of the program of the S. A. F. Convention at Houston, Texas.

GLADIOLUS SOCIETY OF OHIO.

The fourth annual flower show of the Gladiolus Society of Ohio will be held in the Hollenden Hotel, Cleveland, Ohio, on Friday and Saturday, August 18 and 19, 1916. Premium lists can be had on application to Wilbur A. Christy, secretary, Warren, Ohio. All who expect to exhibit should notify chairman of the executive committee, R. E. Huntington, Painesville, Ohio, giving the number of vases and amount of space desired.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Public notice is hereby given that as no objection has been filed, the following registration becomes complete. *Salvia splendens* var. *Elizabeth Dunbar*, by John Dunbar, Rochester, N. Y.
JOHN YOUNG, Sec'y.

August 5, 1916.

HOUSTON CONVENTION RATES

In addition to the rates already

quoted the Southwestern Passenger Association announces under date of August 7 that interested lines have individually authorized an open rate of fare and one-third for the round trip from New Orleans, La., and Shreveport, La., to Houston, Texas, and return, tickets to be on sale August 12, 13 and 14, 1916, limited for return to reach original starting point prior to midnight of September 5, 1916.

MICHAEL BARKER,
Chairman Transportation Committee,
Chicago Florists' Club.

FLORISTS' CLUB OF PHILADELPHIA.

The September meeting of the Philadelphia Florists' Club will be "Canna Night," and Eugene Michel of Dreer's will be the spotlight hero—he and a fine exhibit of new and fancy varieties.

The Violet Growers Mutual Association, Rhinebeck, N. Y., reelected the following officers at its annual meeting: President, Chas. R. Traver; secretary-treasurer, F. L. Asher. Fred Moore succeeds A. C. Toof as a director.

ANNOUNCEMENT

Commencing December, 1916, I shall disseminate

Crimson Carnation Doris

Awarded A. C. S certificate at St. Louis, January, 1916, **scoring 88 points after being in the boxes on the trip 48 hours.** This will give some idea of its keeping and shipping qualities. Habit erect, producing an abundance of high-grade flowers on long stiff stems, fine color, calyx very seldom splits.

Price, \$10 per 100, \$100 per 1000

S. J. GODDARD,

**Framingham Centre,
Mass.**

COLOR STANDARDIZATION.

Color appeals to every human being and belongs of right to all who love joy-giving knowledge. Color discrimination has its value in every walk of life and in all art and science. Let us classify and name colors on simple, intelligible lines, before the professional experts get hold of the subject and try to lock it up as supposed occult knowledge, and quarrel among themselves over names; for color is new as a science, though old as an art. Every science must be international for its development, and a natural science, especially, can only do its best work through links between naturalists of diverse nations. It is good news that Dr. Ridgway has agreed to promote a color chart adapted to wider use. I believe any color chart that was not based on the Ridgway method would be retrograde. Yet the Frenchmen of the *Repertoire des Couleurs* are eminently right (1) in recognizing the importance of international work; (2) in giving the origin of the names adopted; (3) in their fine feeling for color names, the English names being often very inferior, while the Latin nations have usually wisely imitated French names; (4) in quoting examples of colors (though too exclusively, for general use, from the vegetable world); and (5) in laying down the rule that a color is best tested or exhibited by being surrounded with white, though it must be admitted that for the convenience of a small book of reference, where color samples are crowded, the grey ground of Ridgway's may be justified as more restful to the eye. Color nomenclature should be fixed after comparisons between the work of French, Italian, Spanish and German color students, and the names they select, as well as of American and English; and, if possible, we should consult a few of the many cultured people of Japan (who all learn English, in spite of our irrational spelling). I believe Dr. Ridgway to be a true

American in fine intellectual sympathies and appreciation of the needs and capacities of ordinary mortals; and we should ask him to add some helpful pages to his admirable letterpress. Some alternative names should be given in a prefatory classified index, even if synonyms are ruled objectionable in the body of the book. Brief notes on the origin of names are needed, and also such historical appellations as "Chevreul's type blue," and if possible all the forty of Saccardo's Latin names. There is no more delightful hobby than a collection of colors, which can be made with not only paints or pastels, but also with scraps of colored paper from wrappers on merchandise, disused sample books, and small pieces of cotton or silk-colored cloth, cut into uniform shape. The best model is the Ridgway chart, three columns of seven colors each to a page (omitting black and white); and a skeleton outline of the rectangular spaces can be easily pencilled in by means of a cardboard stencil. Opposite each of the fifty-three pages space should be left for entering notes of examples. Thus this individual color chart will have the Scarlet Pimpernel (*Anagallis arvensis*) and the two tones of the Dandelion duly noted; also the Purple Clover (*Trifolium pratense*), the best example of Ridgway's Eupatorium Purple, XXXVIII., 67", V-R; in the French Repertory "Deep carmine violet," 174, tone 1. The color primuline yellow will be referred to the yellow of the wasp. To go further afield for examples, the Mariposa Lily (*Calachortus macrocarpus*), the loveliest of British Columbian flowers, is Hay's lilac, XXXVIII., 63", R. V., tone d— perhaps better given in the French chart: "Violet heliotrope," 188, tone 2. The inside of the Maynard Plum is Pomegranate purple, Ridgway, XII., 71, V. R. R., i; or in the French chart, 165, purple garnet, tone 1, or reddish-purple, 161, tone 1 (Saccardo's *purpureus*). The production of a universal and easily understood color guide would do many things for us, especially when we should become familiar with it through a little color-testing practice. Not the least of the benefits resulting would be the help in visualising from description the floral treasures found by such travellers as Mr. E. H. Wilson and Mr. Reginald Farrer.—D. F. Kerr, in *The Gardeners' Chronicle*, London.

BAILEY'S NEW STANDARD Cyclopedia of Horticulture

Six large quarto volumes.
More than 3,600 pages. 24
exquisite full-page color
plates. 96 full-page sepi
halftones and more than
4,000 text engravings. 500
collaborators. Approxi-
mately 4,000 genera, 15,000
species and 40,000 plant
names.

The new Standard Cyclopedia of Horticulture has been freshly written in the light of the most recent research and experience. It is not merely an ordinary revision or corrected edition of the old Cyclopedia, but it is a new work from start to finish with enlarged boundaries geographically and practically; it supersedes and displaces all previous editions or reprints of every kind whatsoever. It is both an Encyclopedia and a Manual, for with the aid of its Synopsis and Key, amateur and professional alike may quickly identify any plant, shrub or fruit contained within the set, and then receive expert instructions for its cultivation. Price \$6.00 per volume. Four volumes have now been issued and the others will follow in succession. Order from

HORTICULTURE PUBLISHING CO.

147 Summer Street, Boston, Mass.



Boddington's Re-selected Winter-flowering Spencers as grown by Wm. Sim, Cliftondale, Mass.

WINTER SPENCER SWEET PEAS

NEW CROP SEED READY FOR DELIVERY NOW

Pink and White

	1 oz.	1/4 lb.	1 lb.
Christmas Pink Orchid. Standard bright pink wings	\$3.00	\$10.00	\$35.00
Pink-and-White-Orchid	.65	2.00	7.50
Sensation. Newman & Legg's variety of the Christmas Pink Orchid	3.00	10.00	35.00
The Zar. Standard rose wings white mottled with	3.00	10.00	35.00

Apricot and Orange

Apricot Orchid. Mostly apricot self	\$1.50	\$1.50	\$15.00
Orange Orchid. Standard orange, wings dark spots	1.50	4.50	15.00

Lavender and Blue

	1/4 oz.		
Anita Wehrman. Mauve lavender	\$0.75		
E. Burke. The best light blue	50c.	2.50	6.00
Mrs. John M. Barker. Lilac, with glowing dark rose wings light blue on white ground	1.50	1.50	15.00

White and Blush

Bridal Veil. Pure white	\$1.00	\$3.50	\$12.00
Mrs. M. Spanolin. Double white	1.00	3.50	12.00
Venus. Slightly blush pink	1.50	4.50	15.00
White Orchid. Pure white	.65	2.00	7.50

Pink and Light Pink

Bohemian Girl. Pink self	\$1.50	\$1.50	\$15.00
Fordhook Pink. Rose pink on white ground	1.25	3.50	12.00
Morning Star. Self pink color	3.00	10.00	35.00
Mrs. Jos. Manda. Light shell pink	.65	2.00	7.50
Miss Florence Roland. Pink and Salmon	1.50	4.50	15.00
Mrs. A. A. Skach. Bright pink	.65	2.00	7.50
Rose Queen. Beautiful pink	1.50	5.00	18.00
Selma Swenson. Light, soft pink	1.00		

Yarrowa

Bright rose pink with light wings.

Australian introducers re-selected stock	\$2.00	\$9.00	\$24.00
California grown seed	.65	2.25	8.00

Red and Rose

Belgian Hero. A beautiful rose	\$3.00	\$10.00	\$35.00
Fordhook Rose. Rosy carmine	1.50	4.00	15.00
Orchid Beauty. Rose-pink, with orange	.75	2.50	10.00
Red Orchid. Bright cherry red	.75	2.50	10.00
Sensation Scarlet. Bright scarlet	3.00	10.00	35.00

Mixed Winter-Flowering Spencers	\$0.65	\$2.00	\$7.50
---------------------------------	--------	--------	--------

Florists' Flower Seeds for Present Sowing

Pansies, Giant Varieties

	Tr. pkt.	1/4 oz.	Oz.
Boddington's "Challenge" Mixture	\$.50	\$1.50	\$5.00
Knott's Winter-flowering Mixed. Large flowers of good substance on long stems	.75	2.50	
Sim's Gold Medal Mixed	.75	7.00	
Triumph of the Giants. Extremely large	.50	2.75	10.00
Giant Trimardeau. Mammoth mixed	.15	.50	1.50
Giant Madame Perret. Rich wine colors	.15	.85	3.00
Giant Lord Beaconsfield. Deep purple violet	.15	.50	1.50
Emperor William. Ultramarine blue, purple	.10	.50	1.50
Golden Queen. Bright yellow; no eye	.15	.60	2.00
Golden Yellow. Yellow, brown eye	.15	.75	2.50
President McKinley. Golden yellow	.15	.85	3.00
White. Violet spot	.10	.60	2.00

5% DISCOUNT FOR CASH WITH ORDER.

ASPARAGUS PLUMOSUS NANUS. True greenhouse grown. 100 seeds 50c., 250 seeds \$1.00, 1000 seeds \$5.50.

PLUMOSUS NANUS. California grown. 100 seeds 50c., 250 seeds 75c., 1000 seeds \$2.50.

	Tr. pkt.	1/4 Tr. pkt.	Tr. pkt.
CALCEOLARIA, Boddington's Perfection Mixed	\$1.00	\$.60	
CINERARIA, Boddington's Matchless Mixed	1.00	.60	
CINERARIA, Boddington's Stellata Mixed	1.00	.60	
MIGNONETTE, Boddington's Majesty. The finest Mignonette for Winter forcing	Per oz., \$7.50	1.00	.60
SCHIZANTHUS Boddingtonii	Tr. pkt. 75c.; 3 for \$2.00		

Winter Stock

	Tr. pkt.	1/4 oz.
Beauty of Nice. Daybreak pink	\$.25	\$1.00
Lenox Purple. Light purple	.25	1.00
Princess Alice. Pure white	.25	1.50
Queen Alexandra. Rosy lilac	.25	1.00

Our New Florists' Catalogue containing Selected List of Bulbs and Seasonable Flower Seeds is now ready. Mailed Free.

ARTHUR T. BODDINGTON CO., Inc., 128 Chambers St., New York City

DON'T HESITATE NOW!

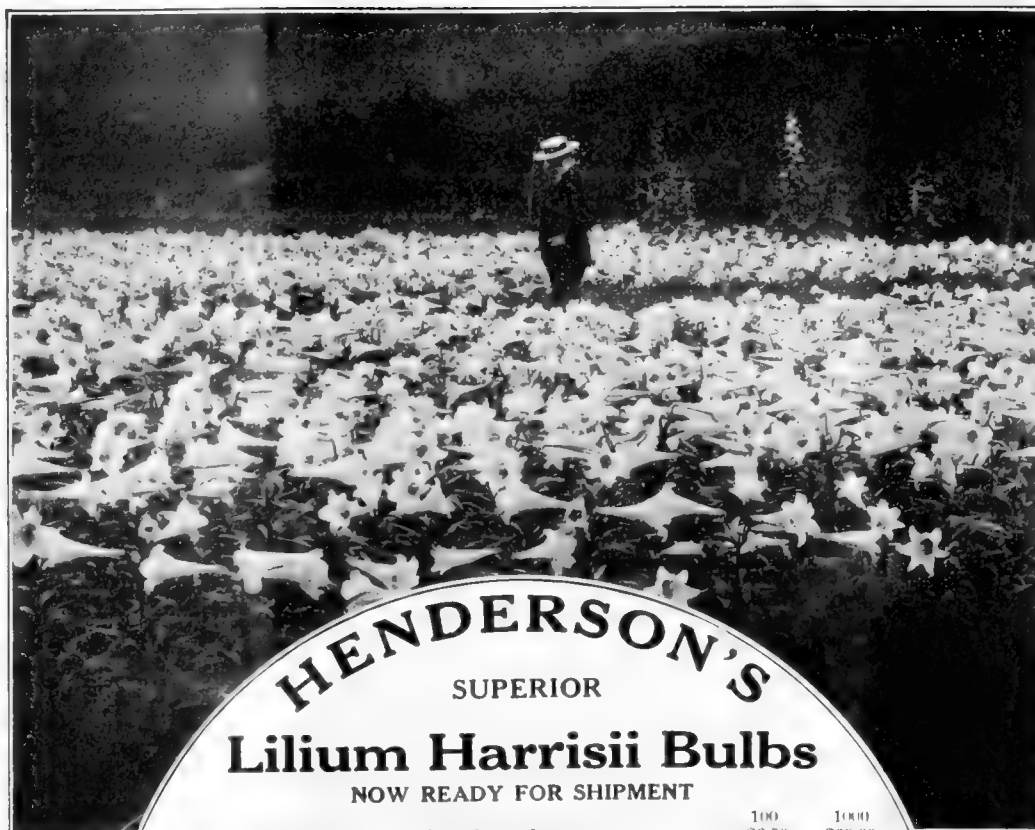
Send Copy for Advertisement in

CONVENTION NUMBER

It will surely reach the Buyers, and if you say it right it will

TOUCH THE SPOT!

Henderson's Superior Bulbs for Autumn Planting



The Largest Assortment of Varieties and the Best Bulbs Imported Old Standards and Choicest Novelties in
 HYACINTHS
 TULIPS
 NARCISSUS
 LILIES
 PEONIES
 IRIS
 SPIRAEAS
 FREESIAS
 CALLAS, etc.

First size bulbs, 6 to 7 inches circumference.....	100	1000
Extra size bulbs, 7 to 9 inches circumference.....	\$6.50	\$60.00
	12.00	110.00

Henderson's Wholesale Catalog of Bulbs, Seeds, Requisites, etc.
 for Autumn, 1916, Mailed to Florists on application.

PETER HENDERSON & CO. 35 and 37 Cortlandt St. New York

TIME TO START UP!

If you have anything ready to sell to growers, planters or dealers, don't neglect to advertise in next week's

**Special Convention Number
 of Horticulture**

It is your best opportunity.

Send in your copy early, please!

The Glory Fern (*Adiantum Farleyense Gloriosa*)

Adiantum Farleyense Gloriosa

THE GLORY FERN or RUHM VON MORDRECHT

This splendid Fern which so closely resembles *Adiantum Farleyense* in appearance and which does not require the special skill and care in growing that is necessary to produce good plants of *A. Farleyense*, has quickly made a place for itself not only on account of the fact that it can be produced for little over half that of growing *Farleyense*, but also because either in a cut state or as plants used in decorative work, it will outlast the old variety ten to one, making it an available subject where *Farleyense* can not be used at all. Since its introduction some 5 or 6 years ago there has never been a supply large enough to meet the demand. With this in mind we have prepared this season an extra large stock, which is in prime condition and we now offer select

3 inch pots, \$2.00 per doz.; \$15.00 per 100; \$140.00 per 1000
4 inch pots, \$3.50 per doz.; \$25.00 per 100

For a Complete list of seasonable stock see our current Wholesale List.

The above offer is intended for the trade only.

HENRY A. DREER

714-716 Chestnut Street, PHILADELPHIA, PA.

THE PAWPAW (*Asimina triloba*).

A colony of this handsome tree, which is very common in the southern states but at the north occurs in only a few isolated stations, is now established here, and this year the leafless branches have been well covered with the curious, dark-brown, bad-smelling flowers. Under favorable conditions the Pawpaw is sometimes a tree forty feet high with a tall stout trunk; it has handsome drooping, dark green leaves often a foot long and six inches wide, but it is chiefly interesting as the only extra-tropical North American tree, with the exception of some of the wild Plums, which produces edible fruit. This is borne in few-fruited clusters and is from three to five inches long and from an inch to an inch and a half in diameter, greenish yellow, becoming almost black when fully ripe with semitranslucent, sweet, luscious flesh. The ripe fruit does not bear transportation and is rarely sold in the markets, and so is little known except to boys who live near Pawpaw thickets. The American Genetic Association, however, has now taken up the possibility of the improvement of this fruit and is offering prizes for information about the largest trees, and about trees, regardless of their size, which bear fruit of unusually good quality.

—*Arnold Arboretum Bulletin*.

The firm of Thomas Meehan & Sons has been dissolved. The business at Germantown and Mt. Airy, Pa., will be continued by S. Mendelson Meehan and J. Franklin Meehan as Thos. Meehan & Sons. The establishment at Dresher, Pa., will be Thos. B. Meehan and his son as Thos. B. Meehan Co.

LILIUM CANADENSE.



This is one of the loveliest of native American flowers. Just now its tall stems crowned with golden flowers swing jauntily above the surrounding herbage in the moist, rich meadows, while its sister lily, *L. philadelphicum*, prefers to hide among the low bushes on the high dry slopes. These with the well-named *L. superbum* are among the richest adornments of the New England summer fields and woodlands.

In the advertisement of Rainbow Freesias by August Rolker & Sons last week the line "in fine assortment" should read "in fine mixture of fancy shades."

To Our Readers

Please
Look
Carefully
through the advertisements in
this paper and
you will surely
Find
Something
You
Want.

**You Can Never
Buy Cheaper
Than Now!**

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending July 28, were recorded as follows:

Bulbs—England, \$5; Bermuda, \$5,300; Japan, \$1,068.

Plants—Belgium, \$1,256; England, \$75; Guatemala, \$187.

Red Cloved seed—France, \$11,123; England, \$130.

Clover seed—France, \$9,499; Russia, \$9,583; New Zealand, \$1,206.

Grass seed Ireland, \$324.

Other seeds—France, \$3,142; Netherlands, \$81; British East Indies, \$5,515; Hongkong, \$108; Argentina, \$2,864.

Nitrate of potash—British Indies, \$37,286.

Nitrate of soda—Chile, \$74,404.

Other fertilizers—England, \$134; Mexico, \$702; Argentina, \$450.

British Prohibit Bulbs by Parcel Post.

The following deputation waited on Mr. Enthoven, the new Controller of Imports at the Board of Trade on July 17, by special invitation. Mr. Cuthbertson and Mr. G. H. Barr (representing the Horticultural Trades Association), Mr. Hunter, of Messrs. Austin and McAshlan (representing the Scottish Seedsmen), and Messrs. Sherwood, Shorthouse, Sylvester, Mr. T. Page and Mr. R. Page (representing the Hampton Growers' Association). The three points discussed were:

1. The Importation of Bulbs from Holland by Parcel Post.

Mr. Enthoven, on behalf of the Board of Trade undertook that all parcels which may contain bulbs or other prohibited articles from Holland, Denmark, Sweden and Norway will be stopped by the Customs or Postal Authorities.

2. Imports of Japanese Bulbs.

Mr. Enthoven agreed to admit up to 50 per cent. of 1915 imports provided that the shipments are effected before October 31, and subject to the Trade devising a scheme whereby the Board may be assured that this quantity will not be exceeded.

3. Cut Flowers.

Mr. Enthoven fully appreciated the fact that great loss would be caused the Flower Growers in this country if cut flowers are allowed to come in

from those countries from which the importation of bulbs is prohibited, and he said the matter would require to be dealt with when any New Prohibition Orders were being issued. It would be kept in mind.

Hort. Trade Journal.

Those Seductive Catalogues.

Extract from "A Summer in Our Garden," by Mrs. Gertrude Ellis Skinner, Austin, Minn. in *The Monthly Hort. Circular*.

Summer in our garden begins with the arrival of the first seed catalogue in January, and closes the day before its arrival the next January. We may be short on flowers in our garden, but we are long on seed catalogues in our library. We do not believe in catalogue houses excepting seed catalogues. We find them more marvelous than the Arabian Nights, more imaginative than Baron Manhausen, and more alluring than a circus poster. We care not who steals the Mona Lisa so long as S— sends us pictures of his cabbages. The art gallery of the Louvre may be robbed of its masterpiece without awakening a pang in our breasts, if D— will only send us the pictures of those roses that bloom in the paint-shops of P—. Morgan may purchase the choicest collections of paintings in Europe and hide them from the public in his New York mansion, if M— will send us pictures of watermelons, such as were never imagined by Raphael, Michael Angelo or Correggio.

While the world watches the struggle for the ownership of some great railway system, the control of some big trust, the development of some enormous enterprise, we watch for the arrival of the seed catalogue to see which artist can get the most cabbages in a field, the most melons on a cart, or make the corn look most like the big trees of Yosemite. Don't talk to us of the pleasures of bridge whist if it is not to be compared with the seed catalogue habit.

In the seed catalogue we mark all the things we are going to buy, we mark all the new things. There is the wonderberry, sweeter than the blueberry, with the fragrance of the pineapple and the lusciousness of the strawberry! We mark the Himalayaberry—which grows thirty feet, sometimes sixty feet in a single season. Why, one catalogue told of a man who picked 3,833½ pounds of berries from a single vine, besides what his children ate. Our Himalaya vine grew four inches the first season and died the first winter. We were glad it did. We did not want such a monster running over our garden. We wanted to raise other things.

But we did not lose faith in our catalogues. We believe what they say just as the small boy believes he will see a lion eat a man at the circus, because the billboard pictures him doing it.

If we ordered all the seeds we mark in the catalogue in January, we would

require a township for a garden, a Rockefeller to finance it and an army to hoe it. We did not understand the purpose of a catalogue for a long time. A catalogue is a stimulus. It's like an oyster cocktail before a dinner, a Scotch high-ball before the banquet and the singing before the sermon. S— knows no one ever raised such a crop of cabbages as he pictures or the world would be drowned in sauer kraut. If the Himalayaberry bore as the catalogues say it does we should all be buried in jam. You horticulturists never expect to raise such an apple as L— describes; if you did, they would be more valuable than the golden apples of Hesperides.

But when we get a catalogue we just naturally dream that what we shall raise will not only be as good, but will excel the pictures. Alas, of such stuff are dreams made! We could not do our gardening without catalogues, but they are not true to life as we find it in our garden. We never got a catalogue that showed the striped bug on the cucumber, the slug on the rose bush, the louse on the aster, the cut worm on the phlox, the black bug on the syringa, the thousand and one pests, including the great American hen, the queen of the barnyard, but the Goth and vandal of the garden.

But the best part of summer in our garden is the work we do in winter. Then it is that our garden is most beautiful, for we work in the garden of imagination, where drouth does not blight, nor storms devastate, where the worm never cuts nor the bugs destroy. No dog ever uproots in the garden of imagination, nor doth the hen scratch. This is the perfect garden. Our golden glow blossoms in all of its auriferous splendor, the Oriental poppy is a barbaric blaze of glory, our roses are as fair as the tints of Aurora, the larkspur vies with the azure of heaven, the gladioli are like a galaxy of butterflies and our lilies like those which put Solomon in the shade. Every flower is in its proper place to make harmony complete. There is not a jarring note of color in our garden in the winter time.

New York, N. Y.—A new seed store has been opened at 87 Barclay street, by Edward A. Peth and Frank Dugan. Both of these gentlemen have had long experience in the seed business.

CATALOGUES RECEIVED.

V. Lemoine & Son, Nancy, France. Special July, 1916. List of Delphiniums and Peonies. Autumn Catalogue will be issued in September.

H. G. Hastings Co., Atlanta, Ga.—Catalogue No. 52, Fall 1916. An excellent seed catalogue, especially interesting on field and farm grain seeds, grasses, vegetables, etc.

John C. Moninger Company, Chicago, New York and Cincinnati.—"Moninger Greenhouse News." This is not exactly a catalogue but it is identical in purport. Interesting papers are included, written by A. Hammarstrom, O. Hirschfield, C. P. Guion, R. Kurowski and J. A. Kinney and there are some very instructive pictures.

"Seeds with a Lineage" All Varieties

Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

MICHELL'S FLOWER SEED

NEW CROP

MIGNONETTE SEED

"COLOSSAL"

A strain which cannot be surpassed for forcing; a robust grower and produces immense flower spikes. Our seeds are saved from greenhouses grown specimens and give splendid results.

Trade pkt., 10c.; \$1.00 per oz.

PANSY SEED

GIANT EXHIBITION MIXED. A giant strain which for size of bloom, heavy texture and varied shades and colors, cannot be excelled. Trade pkt., 50c.; 75c. per 1/2 oz.; per oz., \$5.00.

GIANT TRIMARDEAU MIXED. Very large flowering; choice colors. Trade pkt., 30c.; \$1.25 per oz.

Also Giant Prize and Regular Sorts in separate colors.

ASPARAGUS PLUMOSUS NANUS

Northern Greenhouse Grown Seed

1,000 seeds	\$3.50
5,000 seeds	15.50
10,000 seeds	30.00

Lathhouse-Grown Seed

1,000 seeds	\$2.00
5,000 seeds	9.75
10,000 seeds	18.50

Also all other Seasonable Seeds, Bulbs and Supplies.

Send for Wholesale Catalogue and Price List if you haven't a copy.

HENRY F. MICHELL CO.

Flower Seed Specialists

518 Market St., Philadelphia, Pa.

LILIUM HARRISII BULBS

	Per 100	Per 1000
5 in. to 7 in.	\$5.00	\$40.00
7 in. to 9 in.	9.00	80.00
9 in. to 11 in.	22.00	

For Immediate Delivery

J. M. THORBURN & CO.

53 Barclay Street

Through to 54 Park Place
NEW YORK CITY

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

W. E. MARSHALL & CO.

SEEDS, PLANTS AND BULBS

Horticultural Sundries

166 W. 23rd St., NEW YORK

TREES !!

We are prepared to do all kinds of forestry work, including the filling and sealing over of cavities, taking down and removing trees, trimming and thinning out large and small growth in woods and timber lands. We give careful attention to the shaping of young fruit trees, budding and dip-grafting. We combat all kinds of leaf-eating and sap-sucking insects by improved methods.

Safeguard your fruit trees and their foliage by spraying.

R. & J. FARQUHAR & CO.

BOSTON, MASS.

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

POINSETTIAS

August Shipment

True type, fine 2 1/2 inch plants, shipped in paper pots, \$6.00 per 100, \$50.00 per 1000.

A. HENDERSON & CO.

211 N. State St.

CHICAGO, ILL.

My new Price List of

WINTER-ORCHID-FLOWERING SWEET PEA SEED

Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch

Lompoc, Cal.

MIGNONETTE

IMPROVED ECLIPSE.

Superior to all others for winter blooming, exhibition, or cutting. Immense fragrant spikes 10 to 15 inches long. Greenhouse grown seed from a re-selected strain. Pkt. 25c., 1/16 oz. \$1.00. Catalogue upon application.

THOMAS J. GREY CO., Seedsmen

29 So. Market St., Boston, Mass.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

NEW CROP SEEDS

PANSY SEED. Giant flowering florist mixture. American grown. (Best money can buy.) 50c. per tr. pkt., 1/4 oz. \$1.50, oz. \$5.00.
PANSY SEED SPECIAL. Greenhouse mixture for forcing; long-stemmed. \$1.00 per tr. pkt., 1/4 oz. \$1.50, 1/4 oz. \$2.50; oz. \$8.00.
SWEET PEAS. Zvolanek's Orchid Flowering in all varieties. I have his agency this season.

ROMAN J. IRWIN,

Plants, Cuttings, Bulbs, Seeds.

108 West 28th Street - New York.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.

BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragons on the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.

PHILADELPHIA, PA.

LILIUM GIGANTEUM

COLD STORAGE

Extra Selected Stock. Gladiolus for forcing. Nanas, Colvilled or large flowering type. Greenhouse Fertilizers. Ask for 1916 Seed Catalogue.

Joseph Breck & Sons Corp., Seedsmen

47-54 No. Market St., BOSTON, MASS.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

For KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for New York. Write or Phone to

MAX SCHLING

22 West 59th Street, - Adjoining Plaza Hotel

Best Florists in the States as References.

EUROPEAN ORDERS EXECUTED.
Members of the Florists' Telegraph
Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO**DAVID CLARKE'S SONS**

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York
Telephone 1543-1548 Columbus

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

WORCESTER, MASS.

Randall's Flower Shop

HARRY L. RANDALL, Proprietor.

Member Florists' Telegraph Delivery Association

Of Interest to Retail Florists**NEW FLOWER STORES.**

Omaha, Neb.—Lee R. Larmon, Hotel Fontenelle

Vevay, Ind. Chas. Kinkaid, succeeding W. O. Jaynes.

Somerville, Mass.—J. H. Gartland, Somerville, avenue.

New York, N. Y.—Plaza Floral & Fruit Co., 698 Lexington avenue.

Detroit, Mich.—McHugh Floral Co., removing to Grand River avenue.

North Adams, Mass.—The Flower Box, Bank street, W. E. Cady, proprietor.

BUSINESS TROUBLES.

Worcester, Mass.—John U. Gibbons, florist, assets, \$271, liabilities, \$660.

St. Paul, Minn.—Henry A. Boardman, proprietor Riverside Greenhouse Co., assets, \$200, liabilities, \$5,744.54.

Glencoe, Ill.—Leopold Koropp, gardener, voluntary petition in bankruptcy, assets, \$112.20, liabilities, \$2,994.12.

Mitchellville, Md.—Franklin Davis Nursery Co., the nursery to be sold August 23d, per order of the United States District Court for Maryland.

NEWS NOTES.

Decatur, Ill.—Andrew Peterson has purchased the Bommersbach greenhouses.

Philadelphia, Pa.—Burton & Rone have leased the greenhouses at 60th and Gibson avenues, and will grow cut flowers and bedding plants.

Toronto, Ont.—The new Simmons store on the corner of Yonge and Elm streets is one of the largest and most elegant flower stores in all Canada. Each appointment and every phase of the service of the store has been developed with the idea of extensive and resplendent display, and the utmost convenience of visitors.

Manchester, Mass.—Contractors are figuring the plans for a horticultural building to be erected here for the North Shore Horticultural Society, care of architects Kilham and Hopkins, Boston, who prepared the plans. The building will be of brick and stone construction, one story and basement, 41x87 feet. It will contain an assembly hall, stage, banquet hall and a kitchen. The cost will be \$25,000.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor.

HIGH GRADE PLANTS

For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUIDE BROS CO
4214 F ST NW
WASHINGTON DC

GUIDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

**IN THE
National Capital**

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 306. Long Dist. Bell Phone 2785
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEWPORT, R. I.

145 Bellevue Avenue.

WE GUARANTEE SATISFACTION
MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1836 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

FLOWERS BY TELEGRAPH
SAN FRANCISCO
CALIFORNIA
Pelicano, Rossi & Co.
128 KEARNY ST.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1535.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State
St.

Albany, N. Y.—The Rosery, 23 Steuben
St.

Albany, N. Y.—William C. Gloeckner, 97
State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont
St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Fetters Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

New London, Conn.—Reuter's.

Newport, R. I.—A. T. Bunyard, 145 Belle-
vue Ave.

New York—J. H. Small & Sons, 505 Mad-
ison Ave., at 52d St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

San Francisco—Pelicano, Rossi & Co., 123
Kearny St.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

Penn The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 Tremont St., BOSTON

REUTER'S Members Florists' Telegraph Delivery

STORES IN
New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence
ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only
THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue
The Far-Famed Flowers of

TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
106 STATE STREET, ALBANY, N. Y.



J. H. SMALL & SONS

FLORISTS NEW YORK and WASHINGTON

Announce the removal of their New York store to

505 MADISON AVENUE, AT 52d STREET

WASHINGTON, D. C.
15th and H Streets

Floral and Landscape Work

NEW YORK—Waldorf-Astoria
and 505 Madison Ave.

NEWS ITEMS FROM EVERYWHERE

WASHINGTON, D. C.

A hurried canvass shows that Washington will probably be represented at the convention in Houston by William F. Gude, his son Ernest, and Adolph Gude, and Mr. and Mrs. Chris. Schellhorn.

The florists were invited to participate in the family excursion to Chesapeake Beach, to be given by Kallipolis Grotto, the Masonic playground, on August 23. It is with this organization that the florists have on several occasions given joint affairs of this kind.

Gude Bros. Company is rebuilding five of the large houses which have been a part of the Anacostia range for about 23 years. Adolph Gude, who is in charge of the work, had the old frames torn down and is replacing them in another location with new material.

The Senate has just passed a bill which, if similar action is taken by the House, will give to the U. S. Botanic Gardens an area of more than twice its present size. The bill contemplates the addition of what is now known as East and West Seaton Park, a government reservation. The committee stated that this was but a part of the plan to make the gardens the equal of, if not superior to any others in the world. Back of the measure are a number of prominent Washington florists who are very desirous of seeing it enacted into law.

NEW YORK.

W. B. Thompson of Yonkers, has donated to the Queens conservatories in Forest Park a superb collection of crotons.

The list of excursionists leaving by steamer on Tuesday, August 8, bound for Houston, included John G. Esler and daughter, R. Vincent, Jr., Mrs. Vincent and John A. Vincent, Joseph Heacock, Jos. A. Manda, A. T. Delamare and J. R. Lewis.

ST. LOUIS.

J. F. Anmann and family are motoring through Indiana for a month.

F. H. Weber, with his family, is summing at Estes Park, Col. They will return September 1.

F. Grossart, superintendent of Vahalla cemetery, will this summer build two new greenhouses and a large conservatory.

The new St. Louis Wholesale Cut Flower Co. are having a new building erected at 1410 Pine street, to be ready by September 5. David Geddes and J. J. Beneke will manage this new company.

The Apple Growers' Association held its first meeting here August 2 and 3, with an attendance of 100, from all parts of the States. Officers elected were: President, H. M. Dunlap, Savoy, Ill.; vice-president, W. S. Forgey, St. Louis, Mo.; secretary, H. C. Irish, St. Louis; treasurer, W. F. D. Batjer, Rodgers, Ark.

PITTSBURGH.

An attractive addition in the trade is the Liberty Florists at 6207 Franks-town avenue, near Penn. James D. Grafiodio is proprietor and his nephew, Charles Plaganes, manager. The latter received his experience in New York City.

Vacationists include Wm. Allen of Homewood Cemetery, and family, on trip east; H. P. Langhans at Lake Erie; Miss Sophie Glasser at Atlantic City; John Lipp to New Orleans by water; Mr. and Mrs. Julius Ludwig at Thousand Islands; J. Wilkinson Elliott to Holland on business; B. L. Elliott, motoring in New England; Mr. and Mrs. Henry Meuschke in Erie, Pa.; Howard Hook at Atlantic City; W. B. Hall in Beaver County; Miss Maude Yeakel at Parnassus on the Allegheny river.

BOSTON.

The big electric storm of Tuesday, this week did considerable damage to field crops of all kinds, especially in the suburbs to the north. Reading experienced a hail storm and much greenhouse glass was broken. F. E. Emory lost 1,000 lights. J. N. Webster 800, J. W. Foote 1,000, Alfred Ellis 75, and John W. Winston 800.

NEWS NOTES

Manasquan, N. J.—The Linnaberry property on North Main Street has been purchased by George H. Gregory, florist.

Bellows Falls, Vt. (Gretna Green)—A marriage license was issued here on Aug. 8 to Henry R. Duvarney, a florist, and Florence E. Wood, both of Clinton, Mass.

Pittsfield, Mass.—A party numbering sixteen of the gardeners on the various Berkshire estates with their wives, were entertained on Monday evening, July 24, by Mr. and Mrs. C. A. Mills at their home on Appleton Ave., this city.

Cincinnati—Mr. and Mrs. J. A. Peterson are the only Cincinnatians to attend the S. A. F. & O. H. convention this summer.—J. T. Turner and Glenn E. Moore of Rushville, Ind., were in this city last Sunday.—Miss Laura Murphy has gone to the Cheneauxs for a two weeks' vacation.

South Natick, Mass.—Despite the scarcity of labor, nurserymen throughout the State report increased business over last year. Max Haendler, proprietor of the Old Town Nurseries, states that he has had an exceptionally good season and at the present time is busily engaged in transplanting evergreens, of which he has a very fine stock in various sizes. He anticipates building a new potting shed, as well as starting some additional greenhouses later in the fall.

BASKETS BASKETS BASKETS

BUY YOUR FALL SUPPLIES NOW

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Don't Miss This Chance

Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

1129 Arch Street, PHILADELPHIA, PA.

During Recess

Buffalo Florist Club.

The annual outing of the Buffalo Florist Club was held on Wednesday, August 2, at the Automobile Club Country Home and was a decided success. The party met at the Kasting Co. store and machines were in waiting for a beautiful 16 mile ride to Clarence, N. Y. The party arrived early at the grounds and the long programme was begun.

THE GAMES

In a closely contested baseball game the storemen defeated the greenhouse men; score, 2 to 1. The rule of having only nine men on a side was suspended. The store players were E. Slattery, captain; Moesel, Fiebelkorn, Jerome, Stroh, Lawrence, House, Roach, Gillies, Berg, Taylor, Rodie, Walther, Grever and Kramer. The greenhouse team was composed of Palmer Taylor, captain; C. Berner, Wilke, A. Berner, Harrington, Gittere, Tighe, O'Brien, Bardo, F. Berner, Christman, Compton, Brennan and Schlitz. The batteries were: Store team, Kramer, pitcher; Stroh, catcher; greenhouse team, Gittere, pitcher; Tighe, catcher.

The winners in the 50-yard dash for boys were: Sidney Stall, 1st; Chauncey Neubeck, 2d; John Hunt, 3d. The 100 yard dash for men, 18 years old or over was won by Brennan, 1st; Slattery, 2d; Stuntz, 3d; Kraus, 4th; Kinkel, 5th.

Winners of other contests were: Small boys' and girls' race, Donald Scott, 1st; Fannie Priesach, 2d; Geraldine Reichert, 3d; John Kasting, 4th; Girls' race, Miss Wilson, 1st; Miss Blessing, 2d; Miss Redmond, 3d; Miss Sewell, 4th; Hurdle race for men, Brennan, 1st; Leo Neubeck, 2d; Kinkle, 3d; Tobin, 4th; Three-legged race, A. E. Kiefer and Leo Neubeck, 1st; Ed. Stroh and John Kramer, 2d; Throwing the baseball, men, Roach, 1st; Grever, 2d; Booker, 3d; Scott, 4th; Throwing the baseball, ladies, Miss Blessing, 1st; Miss Berner, 2d; Miss Hoffman, 3d; Miss White, 4th. The greenhouse team won against the store men in the tug-of-war.

The dinner was served at 6.30 P. M. in the spacious dining room of the club and 193 were taken care of. The committee had their hands full in taking care of this bunch and it must be said that it was the best outing yet in the history of the club.

BRIDES BOUQUET AND LADY'S
CORSAGE BOUQUET OF SWEET
PEAS.



Which won 1st Prize at the San Francisco Sweet Pea Show. Exhibited by Art Floral Co., Inc., San Francisco.

ST. LOUIS COUNTY PICNIC.

The St. Louis County Growers' Association will hold its annual picnic August 24 at Creve Coeur Lake. Ar-

rangements are in the hands of Messrs. Rowe, Cerny and Werner and Albert Scheidegger will be marshal.

CLEVELAND FLORISTS PLAN CO-OPERATIVE DISPLAY.

Cleveland florists who are members of The Florists' Club will give a novel demonstration of their enterprise by taking advantage of the great publicity opportunities at the coming exposition in their city. The club has raised a fund for a cooperative exhibit as a feature of the flower section of the Industrial Exposition and Fair, given there September 2 to 9 under the management of M. A. Vinson. This will be one of the most pretentious floral displays ever staged for community benefit and will illustrate the varied uses of flowers and plants.

Timothy Smith, chairman of the flower show committee, has appointed F. C. W. Brown of the J. M. Gasser Co., Charles Russell of the Jones-Russell Co., and Frank Ritzenthaler of Knoble Bros., to plan and execute this most interesting feature display. The committee plan on distributing a neat folder calling the attention of the public to the club's progress in Cleveland.

Among those who have already taken space in the Flower Show tent are B. Hammond Tracy, gladiolus specialist, Wenham, Mass; Stumpp & Walter Co., bulbs and seeds, New York City; Templin, Crockett, Bradley, operating children's flower mission; John Scheepers Co., New York City; Cleveland Bird Lovers' Association; Eagle Wire Works, Cleveland; Liquid Fertilizer Co.; Cleveland Garden Soil Co.; Storrs and Harrison Co., Painesville. A model greenhouse will be erected by Hitchings & Co., Elizabeth, N. J.

Plans are completed for the annual exhibition of flowers, fruit and vegetables in the town hall, Andover, Mass., Friday, Sept. 8, from 5 to 10 P. M., and Saturday, Sept. 9, from 2 to 9 P. M. The exhibition will be by Andover Florists' and Gardeners' club, the A. V. I. S. and the Andover Guild and these organizations expect to make it the best show yet held in Andover.

Now Is The Time To Put
In Next Season's Supply of
SPHAGNUM MOSS

Six 5 Bbl. Bales for \$10.00

This is the biggest value in Moss you can buy. Our Moss is clean and fresh and each bale is wrapped.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S
Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

EDWARD REID
WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER
122 West 25th St., New York
Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RIEHOHND, IND.

Please mention Horticulture when writing.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 2860 Madison Square

WOODROW & MARKETOS
WHOLESALE

Plantsmen and Florists

37 and 39 West 28th St., NEW YORK

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO

MANUFACTURERS

PHILADELPHIA, PA.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

226 DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON August 10		ST. LOUIS August 7		PHILA. August 7	
Roses						
Am. Beauty, Special	15.00	to 20.00	15.00	to 25.00	.....	to 20.00
" " Fancy and Extra	10.00	to 15.00	8.00	to 10.00	12.00	to 15.00
" " No. 1	1.00	to 6.00	1.00	to 5.00	2.00	to 10.00
Russell, Hadley	2.00	to 10.00	5.00	to 10.00	2.00	to 12.00
Killarney, Richmond, Hillingdon, Ward, Extra	4.00	to 6.00	5.00	to 8.00	4.00	to 6.00
" " Ordinary	.50	to 2.00	3.00	to 4.00	.50	to 3.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 6.00	.....	.....	4.00	to 6.00
" " Ordinary	.50	to 2.00	.....	.....	.50	to 3.00
Ophelia, Mock, Sunburst, Extra	3.00	to 6.00	5.00	to 8.00	4.00	to 6.00
" " Ordinary	1.00	to 2.00	2.00	to 3.00	.50	to 3.00
Carnations, Fancy	.....	.....	2.00	to 3.00	.....	.....
" " Ordinary	1.00	to 1.50	.75	to 1.00	1.00	to 1.50
Cattleyas	40.00	to 50.00	30.00	to 40.00	35.00	to 50.00
Dendrobium formosum	.....	.....	.....	.....	.....	.....
Lilies	4.00	to 6.00	10.00	to 12.50	5.00	to 8.00
Lily of the Valley	3.00	to 4.00	4.00	to 5.00	3.00	to 5.00
Snappedragon	.50	to 2.00	3.00	to 4.00	.....	.....
Gladioli	1.00	to 4.00	3.00	to 4.00	1.00	to 3.00
Asters	.50	to 2.00	.....	.....	.25	to 2.00
Sweet Peas	.15	to .75	.15	to .25	.....	.....
Gardenias	20.00	to 25.00	.....	.....	.....	.....
Adiantum	.....	.....	1.00	to 1.25	.75	to 1.00
Smilax	10.00	to 12.00	12.00	to 15.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	20.00	to 25.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co.
Wholesale Florists

493 WASHINGTON STREET - - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

GLADIOLI



The choicer flowering varieties we are receiving in quantity, such as Panama, America, Halley, King, etc., splendid well grown stock.

\$4.00 per 100

Our Selection, \$3.00 per 100, \$25.00 per 1000

A very good grade in 500 lots at \$1.50 per 100

S. S. PENNOCK-MEEHAN CO.

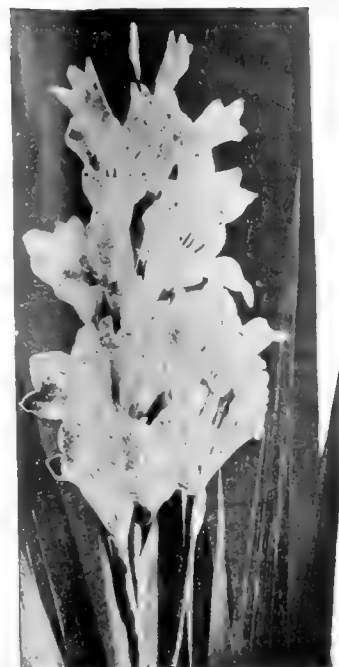
THE Wholesale Florists of PHILADELPHIA

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.



Flower Market Reports

Flower business has **BOSTON** been very satisfactory during the past week—fully up to what could reasonably be expected at this time of the year. The aggregate sales may not be colossal in amount but the fact that they use up nicely the product as it comes in from day to day tends to stability in values, keeps the curbstone vendor "off his feed" so far as flowers are concerned, relieves the ice boxes of sluggish stock and makes the dealers feel comfortable and generally amiable. As for the past fortnight, asters and gladioli are the most prominent flowers in the market at present. The heaviest part of the early aster crop is already off and the receipts have slackened up temporarily. Gladioli are increasing in quantity and they are very fine as to variety and quality. Prices on these are somewhat lower and will no doubt still tend downward. A few fairly good sweet peas are seen. Carnations are conspicuously absent. Roses are small but clean and sell out readily at respectable prices for summer.

For the past two weeks **BUFFALO** the weather has been intensely hot and, under these conditions, stock under glass has suffered. Roses of old stock are very poor and summer roses are not plentiful. The supply of carnations has been good up to now, but their end is near. Asters are inferior and the early crop is apparently a total failure. Gladioli, too, have suffered by the dry spell and the market is well cleaned up daily. Lilies have had good sales and there is very little coming into the market which is about cleaned up daily.

The unusual summer **CHICAGO** conditions of the past three weeks continue. The local demand for first-class stock

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	CINCINNATI August 7		CHICAGO August 7		BUFFALO August 7		PITTSBURG August 7	
Roses								
Am. Beauty, Special.....	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00
" " Fancy and Extra.....	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00
" " No. 1.....	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00
Russell, Hadley.....	5.00	to 6.00	5.00	to 6.00	5.00	to 6.00	5.00	to 6.00
Killarney, Rich'd, Hill'don, Ward	5.00	to 6.00	5.00	to 6.00	5.00	to 6.00	5.00	to 6.00
" " Ord.	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Arenburg, Radiance, Taft, Key, Ex.	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
" " Ord.	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Ophelia, Mock, Sunburst, Extra ...	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
" " Ordinary	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Carnations, Fancy.....	50.00	to 60.00	40.00	to 50.00	50.00	to 60.00	40.00	to 50.00
Ordinary.....	50.00	to 60.00	40.00	to 50.00	50.00	to 60.00	40.00	to 50.00
Cattleyas.....	50.00	to 60.00	40.00	to 50.00	50.00	to 60.00	40.00	to 50.00
Dendrobium formosum.....	50.00	to 60.00	40.00	to 50.00	50.00	to 60.00	40.00	to 50.00
Lilies.....	8.00	to 10.00	8.00	to 10.00	8.00	to 10.00	8.00	to 10.00
Lily of the Valley.....	5.00	to 6.00	3.00	to 5.00	4.00	to 6.00	3.00	to 5.00
Snape.....	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Gladioli.....	4.00	to 5.00	2.00	to 3.00	3.00	to 4.00	2.00	to 3.00
Asters.....	2.00	to 3.00	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00
Sweet Peas.....	2.00	to 3.00	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00
Gardenias.....	2.00	to 3.00	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00
Adiantum.....	2.00	to 3.00	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00
Smilax.....	19.00	to 25.00	12.00	to 15.00	15.00	to 20.00	12.50	to 15.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 35.00	25.00	to 30.00	35.00	to 50.00	30.00	to 40.00

is in excess of the supply and local retailers lose no time when stock is delivered to the wholesalers. The variety of stock is not so much the question as the ability to buy at all. Of the poorer grades, much is used in the cheaper funeral work and some of the balance finds its way to the street fakirs. Out-of-town trade has been good also, for summer supply has been generally curtailed by the heat and drought. Roses are small and soft, carnations are about out of the question. Asters of any size are welcome and there are many more small than large. Lily of the valley is scarce. Gladioli are selling well and the growers will get a good price for them this summer.

The general supply **CINCINNATI** in the market is fair and ample for the demand. Good roses clean up readily. Lilies, speciosum and longiflorums, are in a good supply and meet with a good market. Gladioli and asters are plentiful and the good ones have been selling very readily.

One would think on **NEW YORK** seeing the number of florists' delivery autos that draw up in front of the wholesale flower establishments every morning, that the buyers for the various retailers whose names appear in big letters on these ornate vehicles had important commissions to fill, but it seems to be largely habit that brings them there in these listless August days. In truth there is very little doing anywhere. There is a large supply of roses of not very good quality, a moderate showing of asters of very indifferent grade, and a great abundance of gladioli with plenty of longiflorum and speciosum lilies. Lily of the valley and cattleyas are scarce. Wholesalers might just as well close up at noon every day. Hanging around waiting for business these days is a "stale, flat and unprofitable" existence.

How would you **PHILADELPHIA** like to be a war correspondent — earning a fabulous salary—and your chief sent you down to the Mexi-

(Continued on page 210)

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK

Telephones: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street

Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 3335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE { 608 } MADISON SQ., NEW YORK
609

JOHN YOUNG & CO.
WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.

Tel. (1593) Mad. Sq. 119 W. 28 St., New York
(5893)

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.
Wholesale Commission

READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE { 2281 } FARRAGUT 131 West 28th St., NEW YORK CITY
3089

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND

GARDENIAS, DAISIES, ROSES, CARNATIONS

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 7062 Madison

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones { 1684 } Madison Square
1685

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only**MISCELLANEOUS**

	Last Half of Week ending Aug. 7 1916		First Half of Week beginning Aug. 9 1916	
Cattleyas	50.00	to 75.00	50.00	to 75.00
Dendrobium formosum	20.00	to 25.00	20.00	to 25.00
Lilies	2.00	to 4.00	3.00	to 4.00
Lily of the Valley	1.00	to 3.00	2.00	to 4.00
Snopdragon	.50	to 2.00	.50	to 2.00
Gladioli	1.00	to 2.00	1.00	to 2.00
Asters	.35	to 1.00	.50	to 1.00
Sweet Peas	.15	to .50	.15	to .50
Gardenias	4.00	to 12.00	4.00	to 12.00
Adiantum	.50	to .75	.25	to .50
Smilax	6.00	to 8.00	6.00	to 8.00
Asparagus Plumosus, & Spren (100 bunches)	10.00	to 15.00	10.00	to 15.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for do-
ing our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK
Phones 2036, 2037, 558 Farragut

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797-798-799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality.

114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13—3510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 17)

can border to report the war say three columns of live news every day? And when you got there you found there was no war, and nothing to talk about, but that the home office wanted its three columns of "live stuff" just the same! Wouldn't you pity the poor war correspondent—grinding out inanities and sweating his shirt off trying to make it look like news. You wouldn't like it, and you'd pity him. Well, he's no worse off than the flower market correspondent. "There aint no such animile" as a flower market. It's too hot even to get up an argument with an Irishman. Doggone it! I'm going fishing.

Prices remain high, PITTSBURGH trade conditions continuing remarkably good. Considering that at time of writing we are in our fifth week of torrid heat, with frequent hard rains, stock is of fair quality. Last Saturday experienced one of the severest electrical and rain storms ever in this vicinity, horticultural products of all kinds being practically "beaten to pieces." Asters and gladioli of fine quality are now coming in from Ash-tabula and Toledo, Ohio.

The wholesale market ST. LOUIS is in a poor condition as to supply. The heat wave has been here for the past few weeks. Stock in the field is suffering greatly for the want of rain, while indoor stock suffers from the heat. The cut flower trade is at an extremely low ebb at the present. At the wholesale market we find a lot of poor stock. Asters and gladioli are in good demand. Roses and carnations are very poor. Outdoor flowers are drying up in the field.

Business is very WASHINGTON flat, although it is expected that the month will average up better than the same period last year. Some very good dahlias are coming in now, and asters show an improvement, although it is conceded that these are something of a failure this year. It is a very hard matter to get roses that amount to anything. Some good summer sweet peas and gardenias are in the market. Gladioli make a good showing.

Visitors' Register

Boston—E. H. Chamberlain, New Bedford, Mass.

Philadelphia—Mr. and Mrs. Henry Fischer, Baltimore, Md.; Henry Heck, Reading, Pa.

St. Louis—Harry Balsley, Detroit, Mich.; H. G. Knowlton, Chicago; Morris Le Vene, New York.

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A.M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending Aug. 7 1916		First Half of Week beginning Aug. 9 1916	
American Beauty, Special	15.00	to 20.00	15.00	to 20.00
" " Fancy and Extra	6.00	to 12.00	10.00	to 15.00
" " No. 1	2.00	to 4.00	3.00	to 8.00
Russell, Hadley	2.00	to 8.00	1.00	to 8.00
Killarney, Richmond, Hillingdon, Ward, Extra	3.00	to 4.00	3.00	to 4.00
Ordinary	.50	to 1.00	.50	to 1.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 6.00	3.00	to 1.00
Ordinary	.50	to 2.00	.50	to 3.00
Ophelia, Mock, Sunburst, Extra	3.00	to 5.00	3.00	to 6.00
Ordinary	.50	to 3.00	.50	to 2.00
Carnations, Fancy				
Ordinary	.25	to 1.00	.25	to 1.00

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street
167 & 3058 Farragut NEW YORK

Established 1888 Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists
110 West 28th St., New York
We Solicit Consignments of New
England Grown Novelties.

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square
BOSTON, MASS.
Telephone 2618-2617-2616, Main.

A NATIONAL FLOWER.

There is a move now for a National Flower. Some mention the mountain laurel, but that will not grow in a fourth of our domain. The Iris can be made to grow in every State of the Union. Every family anywhere in the U. S. can raise them. This can be said of no other flower. The peony cannot endure the heat and drought of the semi-arid regions—nor can the phlox. We have enough native sorts to give it prestige. I have seen beautiful wild ones growing on the stony bluffs of the Black Hills where the mercury is often 40 below and there are scores of people now originating new kinds. There are 170 native sorts, besides over 1,000 fine hybrids. They are always on hand for Decoration Day and will fill all the requirements of a national flower.

C. S. HARRISON.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK
Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of

Good Stock Solicited

PERCY W. RICHTER, Mgr., NEW YORK
111 W. 28th Street

HERMAN WEISS

Wholesale Florist

Experienced, Progressive and can handle
shipments of growers' product
satisfactorily.

106 West 28th St., NEW YORK
Tel. Farragut 3066.

STRAIGHT WHOLESALE ONLY

FRANK MILLANG

CUT FLOWERS

55-57 W. 26th St., NEW YORK
NO DESIGNS MADE UP

PERSONAL.

C. F. Edgar has been appointed manager of the Smedley Floral Co., Broadway, Fargo, N. D. He was formerly associated with Penn the Florist, Boston, Mass.

NEW CORPORATION.

Indianapolis, Ind.—Joseph H. Hill Company, general greenhouse business, capital stock, \$80,000. Incorporators, Joseph H. and Lucile G. Hill and Clem A. Gaar.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
expertly adapted for florists' use.
BOOKS BALANCED AND ADJUSTED.
40 STATE ST. - - - BOSTON
Telephone Main 58.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-LINGDALE GREENHOUSES, Collingdale, Pa.

AUCTION SALES

The MacNiff Horticultural Co.,
New York City.
For page see List of Advertisers.

Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price-
list.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

BEGONIAS

Mrs. J. A. Peterson (New), 2½ in. pots,
\$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda,
N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Hitchings & Co., New York City.
For page see List of Advertisers.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made.
Write for list. HOLTON & HUNKEL CO.,
Milwaukee, Wis.

BOX TREES

BOX TREES—Standards, Pyramids and
Bush. Price list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
Lily Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Rainbow and Purity Freesias.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

The MacNiff Horticultural Co.,
Holland Grown Bulbs.
New York City.
For page see List of Advertisers.

Henry F. Mitchell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.
For page see List of Advertisers.

Fottler, Flske, Rawson Co., Boston, Mass.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

Mr. B. Progressive, Florist,
Everywhere, U. S. A.

Dear Sir: It will be a decided advantage
as regards prices and quality to place your
order with us.

Soliciting your order through this ad
cuts down the overhead selling expenses
and you positively get lower prices and
better quality. Our terms are liberal and
are a guarantee that you get a square
deal, all bulbs guaranteed true to name or
money refunded.

Write us and upon request we will mail
you our booklet giving prices f. o. b. New
York or Chicago, and we also cheerfully
furnish you with any information that
may be desired. Those of our friends who
will mail us a list of their requirements
will find it has paid them to do so.

Awaiting to hear from you at your pleas-
ure, we remain, Yours very truly,

Westerbeek & Klyn,
Sassenheim, Holland.
Write to WESTERBEEK & KLYNN, 14
STONE ST., NEW YORK, N. Y.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

Carnation plants. 1000 Matchless, 500
Alice, 500 Pink Delight; \$5.00 per 100.
Plants now in the field; ready to dig any
time. F. E. PALMER, INC., Brookline,
Mass.

CARNATION STAPLES

Split carnations quickly, easily and
cheaply mended. Pillsbury's Carnation
Staple, 1000 for 35c.; 3000 for \$1.00 post-
paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.

Pompon Chrysanthemums.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Emma, a Garza Anemone, Double
Pompon, pale pink.

Chrysanthemums, Rooted-Cuttings: Bon-
naffon, J. Nonin, Chieftain, Polly Rose,
Halliday, Chrysolora, \$1.25 per 100, 300
Nonin, 300 Christmas, 300 Chieftain, 100
Chrysolora, 500 Bonnaffon, 3 inch., \$3.00
per 100. Cash. CHAS. H. GREEN,
Spencer, Mass.

DAHLIAS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

ORDERS BOOKED ANYTIME

For Fall or Spring delivery. Wholesale and
Retail. Send for Catalogue. NORTHBORO
DAHLIA & GLADIOLUS GARDENS, J. L.
Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest,
Best. New color, new form and new habit
of growth. Big stock of best cut-flower
varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Thomas Roland, Nabant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

EUONYMUS RADICANS

Euonymus Radicans. Several thousand,
from rooted cuttings to sturdy plants four
and five years old. This is a large-leaf,
quick growing variety of Radicans. It
originated in this town and is extremely
desirable. Price and sample plants on ap-
plication. F. E. PALMER, INC., Brook-
line, Mass.

For List of Advertisers See Page 195

FERNS

- A. M. Davenport, Watertown, Mass.
Ferns in Flats.
For page see List of Advertisers.
- R. Vincent, Jr., & Sons Co., White Marsh,
Maryland.
Boston Ferns.
For page see List of Advertisers.
- H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

FERTILIZERS

- Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.

FLORISTS' PLANT STOCK

- Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

- Reed & Keller, New York City.
For page see List of Advertisers.
- S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.
- H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.
- Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

- W. H. Ernest, Washington, D. C.
For page see List of Advertisers.
- A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FREESIAS

- August Rolker & Sons, New York City.
Rainbow and Purity Freesias.
For page see List of Advertisers.

FUNGICIDES

- Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

- R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.
- Geraniums S. A. Nutt, rooted cuttings,
\$8.00 per 1,000; 2 1/4 in., \$15.00 per 1,000.
First class stock. Cash. FRANK LEITH
& SON, Haverhill, Mass.

GLASS

- Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.
- Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.
- Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

GLAZING POINTS

- H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

- King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.
- Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.
- Lord & Burnham Co., New York City.
For page see List of Advertisers.
- A. T. Stearns Lumber Co., Neponset,
Boston.
Pecky Cypress.

GREENHOUSE CONSTRUCTION

- King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.
- Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.
- John C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION—Con.

- Lord & Burnham Co., New York City.
For page see List of Advertisers.
- Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.
- S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.
- Hitchings & Co., New York City.
For page see List of Advertisers.
- A. T. Stearns Lumber Co., Boston, Mass.

GUTTERS

- King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

- Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

- Michigan Cut Flower Exchange, Detroit,
Mich.
For page see List of Advertisers.
- The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

- Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.
- Palisades Nurseries, Inc., Sparkill, N. Y.
For page see List of Advertisers.
- P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

- Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.
- Lord & Burnham Co., New York City.
For page see List of Advertisers.

HOT BED SASH.

- Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.
- S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.
- Foley Greenhouse Construction Co.,
Chicago, Ill.
For page see List of Advertisers.
- Lord & Burnham Co., New York City.
For page see List of Advertisers.
- A. T. Stearns Lumber Co., Neponset, Mass.

HOSE

- H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.
- Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

HOSE VALVE

- Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

INSECTICIDES

- Aphine Manufacturing Co., Madison, N. J.
Aphine.
For page see List of Advertisers.
- Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.
- Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

IRIS

- John Lewis Childs, Flowerfield, N. Y.
German Iris.
For page see List of Advertisers.
- Albert Victor Pallida, best cutting va-
riety, \$1.00 per 10, \$6.00 per 100, \$50.00 per
1000. HENRY C. ECKERT, Belleville, Ill.

LILY BULBS

- Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.
- McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

- R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

- Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

- Chas. Schwake & Co., Inc., New York City.
Hobmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

- Loechner & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

- Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

- F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

- National Nurseryman Publishing Co., Inc.
Hatboro, Pa.
For page see List of Advertisers.

NIKOTEEEN

- Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

- Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

- R. & J. Farquhar & Co., Boston, Mass.
Trees.
For page see List of Advertisers.

- P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

- W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

- The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

- Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

- Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

- August Rolker & Sons, New York City.
For page see List of Advertisers.

NUT GROWING

- The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

ORCHID FLOWERS

- Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

- Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

- Paul de Nave, Fall River, Mass.
For page see List of Advertisers.

- Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

PALMS

- August Rolker & Sons, New York City.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

PANSY SEED

Chas. Frost, Kenilworth, N. J.
The Kenilworth Giant Pansy.
For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
Giant Prize Pansy Seed.
For page see List of Advertisers.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

French Peonies can be shipped with
celerity and security via Bordeaux-New
York. Catalogues free. DESSERT, Peony
Specialist, Chenonceaux (I. & L.), France.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

POINSETTIAS.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

B. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS. THE
CONARD & JONES COMPANY, WEST
GROVE, PA.

ROSE STAKES

The Carnation Support Co.,
Connersville, Ind.
For page see List of Advertisers.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Boigiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Florists' Flower Seed for Present Sowing.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Lochner & Co., New York City.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Mignonette, Improved Eclipse.
For page see List of Advertisers.

Roman J. Irwin, New York City.
New Crop Florists' Seeds.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Seeds for the Florist.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

The Leo Niessen Co., Philadelphia, Pa.
For page see List of Advertisers.

STRAWBERRY PLANTS

Wilfrid Wheeler, Concord, Mass.
Pot Grown Strawberry Plants
For page see List of Advertisers.

Elizabeth Nursery Co., Elizabeth, N. J.
Pot Grown Strawberry Plants.
For page see List of Advertisers.

SWEET PEA SEED

W. Atlee Burpee & Co., Philadelphia, Pa.
Winter-Flowering Spencer Sweet Peas.
For page see List of Advertisers.

Arthur T. Boddington Co., New York City.
Winter Flowering Spencer Sweet Peas.
For page see List of Advertisers.

SWEET PEA SEED—Continued

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
For page see List of Advertisers.

Stumpp & Walter Co., New York City.
Early Flowering Sweet Peas.
For page see List of Advertisers.

TREES

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 493 Washington St.
For page see List of Advertisers.

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.

For List of Advertisers See Page 195

WHOLESALE FLORISTS
Detroit

Michigan Cut Flower Exchange, 264-266
Randolph St.
For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
For page see List of Advertisers.

Hentz & Nash, 55 and 57 W. 28th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Traendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

Woodrow & Markatos, 37 and 39 W. 28th St.
For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 53 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Guttman & Reynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunther Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

Frank Millang, 55-57 West 26th St.
For page see List of Advertisers.

George W. Crawbuck Co., 57 West 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ransstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1008-20
Ludlow St.
For page see List of Advertisers.

WHOLESALE FLORISTS
Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 21 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.

New Offers In This Issue**ADIANTUM FARLEYENSE**
GLORIOSA.

Henry A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

BOXWOOD

August Rolker & Sons, New York City.
For page see List of Advertisers.

CRIMSON CARNATION DORIS.

S. J. Goddard, Framingham Centre, Mass.
For page see List of Advertisers.

**EVERYTHING FOR THE GREEN-
HOUSE.**

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

GLADIOLI.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

**GREENHOUSES TO VISIT ON YOUR
NEW YORK VACATION.**

Lord & Burnham Co., New York City.
For page see List of Advertisers.

**HENDERSON'S SUPERIOR BULBS
FOR AUTUMN PLANTING.**

Peter Henderson & Co., New York City.
For page see List of Advertisers.

LILIUM HARRISII BULBS.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

MICHELL'S FLOWER SEED.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

TIE-UP FACTS WORTH TYING TO

Lord & Burnham Co., New York City.
For page see List of Advertisers.

THE NUT-GROWER

The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER
No. 2 Francis St.
WAYCROSS, GA.

WANTS, FOR SALE, Etc.**HELP WANTED**

FOREMAN WANTED to take entire
charge of greenhouse establishment near
Boston. 12,000 feet of glass; grows variety
of stock. Good wages. Married man
with small family. "A. B. C. Co.," Horti-
culture.

WANTED—Good experienced greenhouse
man, roses and general pot plants, to take
charge when necessary. \$65.00 a month and
room; private estate, Boston. Good job to
right man. "H.," care HORTICULTURE.

SITUATIONS WANTED

Gardener with first-class references, 30
years old, married, no children. Experi-
ence in and outdoors on well-known private
places. Address "R. S.," care HORTICUL-
TURE, Boston.

FOR SALE**RETAIL SEED AND FLOWER
STORE**

25 miles from Boston in city of 90,000 popu-
lation. Old established concern doing a
business of \$35,000 to \$40,000 a year, about
one-half of which is seed trade. Address
"T. R.," care HORTICULTURE.

FOR SALE—One 6-inch Castle Circu-
lator complete with motor, one 6-inch
flower for forced draught; 2½, 3 and 4-
inch gate valves. Write if interested.
CHAS. H. RICE, Bedford St., Lexington,
Mass.

MISCELLANEOUS

WANTED TO LEASE, immediately, with
privilege of purchase, about 12,000-15,000
feet of glass. Easy reach of Boston pre-
ferred. Particulars to EDE, Willow Street
Greenhouses, West Roxbury, Mass.

**TREES, SHRUBS, VINES and
HERBACEOUS PERENNIALS**

By JOHN KIRKEGAARD

Formerly Assistant to Director of the Royal
Botanical Gardens, Copenhagen, Denmark.
Latterly Twenty Years in American For-
estry and Botanical Work.

Assisted by DR. H. T. FERNALD,
Professor of Entomology Massachusetts
Agricultural College and Entomologist,
Massachusetts Agricultural Experiment
Station.

and PROF. E. A. WHITE,
Professor of Floriculture, New York State
College of Agriculture at Cornell Univer-
sity.

A Great Book A Beautiful Book
A Comprehensive Book
A Practical Book By Practical Men
There Is No Other Book Like It

410 Pages. Planting Plans. Tabular De-
scription and Classification of Species. 59
Full-Page Illustrations in Tone. Authorita-
tive Articles on Many Subjects.

New Edition

BEAUTIFULLY BOUND IN CLOTH

Price only \$2.50 net. Mailing

Price, \$2.71. Money-Back

Guarantee

Order it from HORTICULTURE

147 Summer St., Boston

In writing to Advertisers kindly mention Horticulture

Est. 1765

Inc. 1904

Pot Makers for a
Century and a Half

HEWS

**STRONG
RED
POROUS**

POTS

**World's Largest
Manufacturers**

Standard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.

Write for Catalogue
and Discounts

A. H. HEWS & CO., Inc., Cambridge, Mass.

Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

THE GREENHOUSE SALESMAN PAST AND PRESENT.

Much has been said and written about the evolution of greenhouse construction, growing methods and all general conditions surrounding plant cultivation under glass.

Everyone old in the business can trace the different periods and methods of construction. From the "large" 10'0 houses at the start gradually increasing in width to the modern steel structures of today with but two intermediate supports in an 84 foot span and these spaced every 12 lights of 16" glass in length of house, is a wonderful development.

The time consumed for these various improvements was comparatively short considering everything and a great deal of credit belongs to those whose efforts brought them about. There is no doubt but what the various florists and others directly connected with the growing helped to a large extent. It was strictly for their benefit to do so. There are others, however, who should come in for a large share of the credit and among them are the greenhouse material salesmen.

These men mingling with the trade in pursuit of business saw that a great many different methods were used. Nothing had been standardized and everyone tried to incorporate their ideas into the houses. After a while the companies manufacturing greenhouse material saw the possibilities in the business and further saw that some radical improvements had to be made.

The first thing they did was to hold consultations with their various representatives and tabulate the numerous irregularities of construction. The salesmen were then consulted in connection with the engineering departments and improvements started. Of course, some ideas were correct and some were not, as in all things, but the general tendency was forward. Some of the improvements were scoffed at and ridiculed by the florists and yet it was no easy matter to obtain their views of what should be done. If a certain man had good success with a certain style of structure he considered it a business secret and refused to advance views as to the rea-

sons why. Others tried the same form and failed, but possibly a few points were gained.

As stated before, however, the tendency was forward and gradually the ranges and houses grew larger, better and more economical to build and operate.

But now how about the salesmen themselves? With all these changes it was impossible for the men to "stand still." More education was constantly in demand. A great and varied number of problems confronted them. Heating, ventilating, sprinkling and innumerable other side lines entered into the business. In order to gain the confidence of the prospective customer he must be able to answer all questions pertaining to the business. In order to do this both education and experience were necessary. No longer could he take a catalogue and sell gutter, sash, bars, sill, ventilators, etc., and consider his work finished. When this was all the goods furnished the prospect, personality and a man's ability to make friends were the main requirements. Now a different and formidable type of salesman enters the field, the sales-engineer. He plans and works with the prospective buyer, suggests a more practical and economical way of doing this thing and the other. Everything must be considered and nothing omitted. If he can show the grower how to save money he has a big advantage.

C. P. GUNN, in Moninger Greenhouse News.

GREENHOUSES BUILDING OR CON- TEMPLATED.

Bath, N. Y.—Wm. W. Orcutt, one house.

Washington, D. C.—Gude Bros., rebuilding.

Anacostia, D. C.—M. J. McCabe, additions and alterations.

Ottawa, Ill.—Davis & Steiner, 2 Garden houses each 76 x 900.

Kansas City, Mo.—E. E. Stockdale, house 22 x 62, house 25 x 62.

Hartford, Ct.—Oscar Olson, Queen street, one vegetable house.

Nashville, Tenn.—Ward-Belmont College, additions and alterations.

Lenox, Mass.—Dan R. Hanna, Lake Mahkeenac, range of conservatories.

Milwaukee, Wis.—Albert Trostel, Lake Drive, palm house and conservatory.

St. Louis, Mo.—Vahalla Cemetery, conservatory and two plant houses, 20x51.

Columbus, O.—Sherman Stephens, one house. Joseph Martin, East Main street, additions.

Baltimore, Md.—J. J. Killian, two houses each 23 x 100, completed. Chas. H. Cook, sweet pea house 35 x 100.



NON-KINK WOVEN HOSE

In any length (one piece) with couplings, 14c. per foot. Unequaled at the price. Remnants, shorter than 50 feet, 10c. per foot, with couplings.

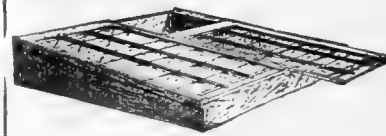


HOSE VALVE—70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.



HOTBED SASH at 75c. each

Made of best grade Gulf cypress.

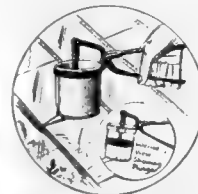
Glazed Hotbed Sash from \$1.65 up.

Double Light Sash up to \$4.00.

We carry a large stock of all sizes. Write us for estimate.

S. JACOBS & SONS

1359-1385 Flushing Avenue BROOKLYN, N. Y.



Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

Seal-tight liquid putty at \$1.25 per gallon.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.



DREER'S

Florist Specialties. New Brand. New Style. Hose "RIVERTON." Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST

1/2-inch, per ft., 15 c.
Reel of 500 ft., " 14 c.
2 Reels 1000 ft., " 14 c.
3/4-inch, " 13 c.
Reels, 500 ft., " 12 c.

Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts., Washington, D. C.

GET OUR CATALOGUE

On Ventilating Apparatus and Greenhouse Fittings

ADVANCE CO., RICHMOND, IND.

King GREENHOUSES
SEND FOR BOOKLET

King Construction Co.
NORTH TONAWANDA N. Y.

WHEN EMPLOYEES, COLLECTORS OR AGENTS HOLD OUT MONEY.

A case which recently came within my own experience seems to make it clear that there is need of explanation as to the legal difference between money held—as for instance, by an employee—under claim of right, and money simply not turned over, as where an employee collects it and appropriates it to his own use. In the first case it is never safe to issue a warrant, and he who does it is liable to be made defendant in an action for damages for malicious prosecution or false arrest. In the second case arrest is not only safe, but is the logical and proper thing to do.

Cases are constantly happening wherein an employee whose duty it is to collect money for his employer, fails to turn it over. Sometimes, perhaps usually, the reason is that he has spent it. He is an embezzler and of course can and usually ought to be arrested. But it often happens that the employee refuses to turn it over because he says he doesn't owe it. His employer owes him something, and he decides he will just hold what he has collected as security for his own claim. The employer who arrests an employee that takes that stand, even though the employee's claim is wholly unfounded, is very badly advised.

Within the past month a case has been decided (Iowa Supreme Court) which will serve as a very good illustration. A corporation with headquarters in Scranton, Pa., employed a local agent in an Iowa town, whose work was supervised by a district agent. The district agent discharged the local agent; who at the time held certain money belonging to the corporation. The district agent demanded the surrender of this money, but the local agent refused, claiming that the company owed him something. He refused to pay the company until the company paid him. The district agent told the corporation that the local agent was short in his accounts and asked if he should have him arrested. The corporation said to get the advice of a certain attorney and follow it. The local agent was arrested and later he sued for damages for malicious prosecution. He recovered a substantial amount. The corporation made all sorts of defenses, mostly technical, but the court said that when it placed the matter in the hands of the district agent and the attorney, it had practically consented in advance to anything they did. Obviously, the court said, the district agent thought he could settle the matter quickly by the use of criminal proceedings and the corporation that gave him authority to do that was legally responsible.

There is a very great and vital difference between the act of a man who says: "It is true I have some of your money, but I refuse to turn it over because I have a right to hold it," and the act of a man who admits that he has the money but sits silent when payment is demanded.

Not long ago in Chicago a commission merchant to whom certain goods were consigned, to be sold for the account of the consignor, held out part

of the proceeds on the ground that he was entitled to an increased commission on a certain part of the consignment. The whole amount was less than \$50. The consignor became very angry and went to Chicago personally and had his consignee arrested on a charge of larceny! When the case was heard the court at once set the consignee free, because he had not stolen the money, but had held it under a claim of right. And whether the claim was good or bad made no difference.

At once suit for malicious prosecution was instituted against the hot-headed consignor, resulting in a verdict against him of \$1,000. The case is now in the Appeal Court, but I have no idea that it will be reversed.

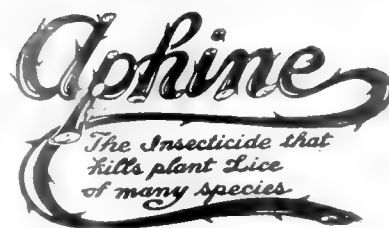
The first thing to ask yourself when any employee or agent who has collected your money refuses or fails to turn it over is, why does he refuse? If it is because he claims the right to hold it, no matter how flimsy the claim is—if sincere—then it is putting your head into the lion's mouth to issue a warrant. Of course thieves and embezzlers often justify holding out of other people's money by a claim of right. The claim of right must have both a legal and moral foundation. For instance, suppose an employee is suddenly discharged. He claims the house owes him money. The house denies it. The employee goes to the safe or the cash register and abstracts enough to cover his claim. That is larceny, even though his claim was a good one. No man can pay himself in any such fashion. But the position of an employee who had collected money for his employer, with the latter's consent, and still held it, would be different. He would not be guilty of larceny if he refused to hand it over on the plea that his employer was indebted to him. Even if his plea was groundless, it would not be safe to arrest him, unless the employer had full proof in his possession that the plea was merely a subterfuge to excuse the larceny. In that case, it would be reasonably safe to issue a warrant.

(Copyright, June, 1916, by
Elton J. Buckley.)

IN EL PASO, TEXAS.

Joseph P. Madden of Medford, who is now doing border duty with the Fifth Massachusetts Regiment at El Paso, Texas, writes to HORTICULTURE as follows:

"I like it fine. It's a great life and one enjoys soldiering in a place like this. The climate is fine and although a little hot the boys are all getting used to it. The earth here is baked dry and not a bit of vegetation can grow anywhere. In the suburban part of the city there are some small flower gardens that are a delight to the eye. Almost every house has its own lawn and what a difference some water will do to the ground. The grass is thick and spongy. You don't see the like in or around Boston. The grass there seems coarse as compared to the grass here, and people owning small farms near our camp tell me that when they get the water for irrigation purposes from the Elephant Butte dam some fifty miles up the river Rio Grande, thousands of acres will be reclaimed."



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.
Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SOALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write
EASTERN CHEMICAL CO., BOSTON



NIKOTEEN

For Spraying
APHIS PUNK
For Fumigating

Ask Your Dealer For It.
NICOTINE MFG. CO.
ST. LOUIS

Little Ads. That Bring Big Returns

Little Ads. in our Classified Buyers' Directory bring big returns to both advertiser and purchaser.

Anything wanted by florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium.

THEY COST ONLY ONE CENT
A WORD UNDISPLAYED

Don't fail to read over these Ads. in each issue and you may find one or more that will prove profitable to you.

REWARD OF MERIT

You will find Kroeschell Boilers heating the largest and best equipped Greenhouses in all parts of the country.



There must be a reason. Our catalogue tells why.



The White House Greenhouses — U. S. Propagating Gardens Washington, D. C. Heated by Kroeschell Boilers

May we send it to you?

KROESCHELL BROS. CO. 466 W. Erie Street Chicago, Ill.

FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, CHICAGO, ILL.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

GLASS

**GREENHOUSE MATERIAL
HOT-BED SASHES**

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

MASTICA



For Greenhouse
Glazing

USE IT NOW

F. O. PIERCE CO.

12 W. BROADWAY

NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

PATENTS

Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

EVERYTHING FOR THE GREENHOUSE

Ready for Immediate Delivery
In Any Quantity

Should you desire to purchase the various parts and do your own building, see us.

CYPRESS. Gulf Cypress, thoroughly air dried, in any quantity up to cargo lots.

BOILERS All kinds, all sizes. Scientifically perfect. Fuel saving.

VENTILATING APPARATUS. Simple but reliable, easy to operate.

FITTINGS. For heating, irrigating, benches, construction.

HOTBED SASH, All sizes. Thousands in stock.

PUTTY and Liquid Putty.

GLASS, all sizes, any quantity.

Our stock comprises anything and everything pertaining to greenhouse construction.

WE CAN SAVE MONEY
FOR YOU.

S. Jacobs & Sons

Greenhouse Builders

1359-1385 Flushing Avenue
BROOKLYN, N. Y.



EVERYTHING FOR THE GREENHOUSE
John C. Moninger Company

CHICAGO NEW YORK
922 Blackhawk St. 812 Marbridge Bldg.
CINCINNATI, 2314 Union Central Bldg.



Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

THE FLORISTS' HAIL ASSOCIATION

is a mutual organization, insuring greenhouse glass against hail. Both commercial and private establishments are accepted. For particulars, address

John G. Baler, Sec., Saddle River, N. J.
Insure Now.

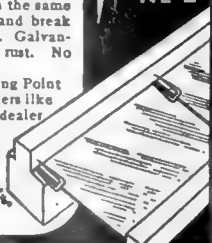
Dror's Peerless Glazing Points For Greenhouses

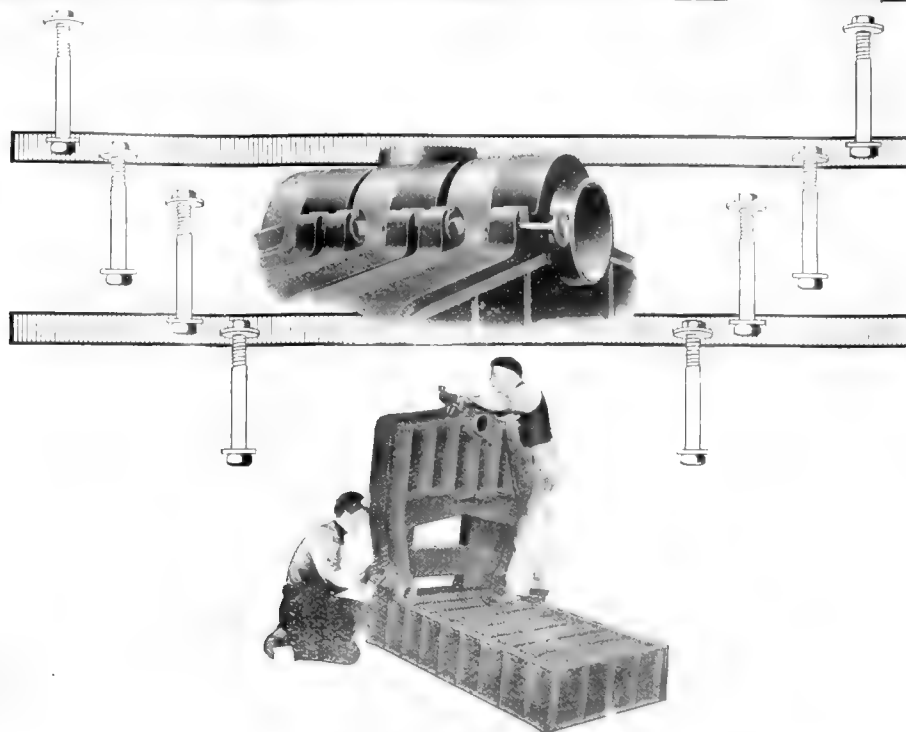
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No right or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.
Samples free.
HENRY A. DROR,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No 2





With the exception of our mammoth 36 inch Burnham, two men with a hammer, a wrench and a screw driver, can set up a Burnham.

Two Burnham Tie-Up Facts Worth Tying To

EACH pair of Burnham sections have their own separate tie-up bolts. Long, long ago, we discarded the long tie bolts. Discarded them because of the bothersome blocking and bracing; and tugging and tussling; to set up a boiler.

Discarded them because of the constant danger of cracking sections in the last wrenching-up to draw the sections tight.

Discarded them because when sections were added to enlarge the boiler, the long bolts must either be

spliced out by a blacksmith or entirely new, longer bolts bought.

Discarded them because in case of replacing of a section, it was next to impossible not to loosen up all the sections.

Burnham short-tie bolted boilers are easy to set up. Easy to repair. Easy to add to. And above all, easy on coal.

We can ship promptly, but the railroads are slow on deliveries. So order ahead of time, if you want your Burnham on time.

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

SALES OFFICES:

NEW YORK
42nd Street Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Widener Bldg.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

CLEVELAND
Sweetland Bldg.

TORONTO, CANADA, Royal Bank Bldg.

MONTREAL, Transportation Bldg.

FACTORIES: Irvington, N. Y. Des Plaines, Ill. St. Catharines, Canada

HITCHINGS GRATES

HITCHINGS grates shake half at a time.

It makes grate shaking easier. But it does a lot more besides. It makes coal bills smaller. Makes them smaller because when you want only a small fire—just enough to keep the early fall or late spring chill out you can bank the back half of the grates with ashes and live only the front half.

BREAK-UPS

WHEN you look at a cast iron boiler, do you ever give a second thought to the uniform thickness of the casting itself? You chances to one you don't.

We guarantee that every one of our sections are cast an even thickness throughout. We don't simply guarantee an even thickness and then when by accident a section breaks and you come back on us to make good, "make all kinds of a boiler."

If it's up to us; it's up to us; and we promptly make good.

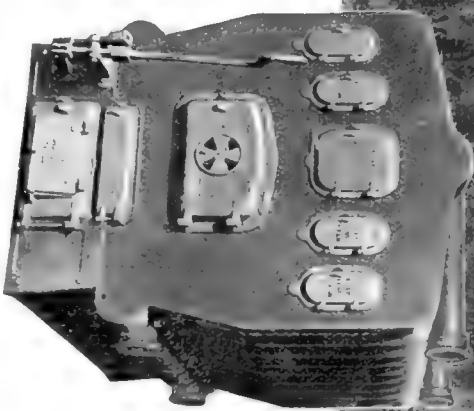
To prevent the need of just such makings good, we every once in a while deliberately break up a perfectly good section, just to see if we are making them as good and perfect as we claim we are.

It costs us a lot of money to destroy these perfectly good sections. But it pays you a lot of boiler and crop too. If we don't.

By protecting you against loss we also protect ourselves. It pays us both.



**A Little
Something
On the
Side**



BEFORE we get to the "little something on the side" just let us continue right here what we started several weeks ago, and that is to give you one more "good, husky, and X" shove towards getting your heating all in shape at once.

It's got to be done; no dodging that. It costs no more to do it now. In actual dollars and cents it will cost you more later. You know we go anywhere to talk heating. Or do heating.

Hitchings and Company

NEW YORK
1170 Broadway

BOSTON
49 Federal Street

PHILADELPHIA
40 S. 15th Street

CLEAN-OUTS

KEETING a boiler's fires clean, goes hand in hand with keeping coal costs down.

Soot is one of the best known insulators for heat.

Soot to a boiler, is like carbon to an automobile.

Every Hitchings fire has a separate clean out door, so you can clean any fire, at any time, with any fire. Fifteen minutes once a week will keep them clean as a whistle.

CHIMNEY KITING

HITCHINGS boilers prevent the heat that should go in your coils, from going kiting up your chimney.

Prevents it because of their special tie arrangement which causes the burning gases to travel a long way around before they can go out of the chimney. In every inch of that travel the water ways are greedily absorbing heat. By the time the smoke pipe is reached, there is just enough heat left to make a draft in the chimney.

If it don't go up the chimney it must go in your coils. The more heat going in your coils, the less money goes out of your pocketbook.

Vol. XXIV
No. 8
AUG. 19
1916

HORTICULTURE



Robert C. Kerr

President, Society of American Foresters and Ornamental Horticulturists

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription, \$1.00



Houses To Visit On Your Philadelphia Vacation Visitation Visit

When you land in good old Philadelphia on your vacation trip, leave your luggage at the station, and come right over to the Widener Building, only three short blocks away.

We will not only be jolly well glad to see you, but consider it a pleasure to tell you about the hotels best to stop at, so they won't take all your money away.

Then we can talk over the greenhouse construction points you are particularly interested in, and we will tell you just where you can see the houses that best show them. Perhaps one of us can visit some of the houses with you, which would indeed be a pleasure to us.

As a preliminary guide, below is a list of a few of our houses in and around Philadelphia.

ROSE GROWERS

JOHN STEPHENSON'S SON, Oak Lane, Phila., Pa. One Iron Frame house 72'x850'. Take car No. 24 on 16th Street, marked Willow Grove. No. 55 on 11th Street, marked City Line. Get off at City Line and walk one square.

MYERS & SAMTMAN, Wyndmoor, Chestnut Hill, Pa. Range of Iron Frame houses, 55 and 50 feet wide by 300 feet long. The most direct route is by train from Reading Railroad, Chestnut Hill Branch, to Wyndmoor Station. Time 40 minutes.

GEORGE BURTON, Wyndmoor, Chestnut Hill, Pa. Iron Frame house 60'x300'. Directions same as for reaching Myers & Samtman.

JOHN BURTON, Wyndmoor, Chestnut Hill, Pa. Iron Frame house 50'x300'. Directions same as for reaching Myers & Samtman.

JOSEPH HEACOCK CO., Roelofs, Pa. One Iron Frame house 55'x600'. One Iron Frame house 72'x600'. Train via Phila. & Reading R. R. from Reading Terminal.

MALCOLM FRANKLIN, Yardley, Pa. One Iron Frame house 72'x600'. Directions for reaching same as for Joseph Heacock Co.

STEPHEN MORTENSEN, Southampton, Pa. Range of Pipe Frame houses; also Iron Frame house 60'x300'. Take train on Phila. & Reading R. R. at Reading Terminal, get off at Southampton. Mr. Mortensen also grows carnations.

ELLENWOOD GREENHOUSES, Hatboro, Pa. Range of Pipe Frame houses; also two Iron Frame houses each 60'x200'. Take train at Reading Terminal, get off at Hatboro. Also grow carnations.

AUGUST DOEMLING, Lansdowne, Pa. Large range of Pipe Frame houses. Take train on Penna. R. R. at Broad Street Station; get off at Lansdowne.

CARNATION GROWERS

H. M. WEISS & SONS CO., Hatboro, Pa. Large range of Pipe Frame houses, each 35'x300'. Train by Reading R. R. to Hatboro at frequent intervals.

R. M. EISENHART, Torresdale, Pa. Range of Pipe Frame houses; also one Iron Frame 55'x150'. Penna. R. R. from Broad St. station; get off at Holmsburg Junction. Then take trolley east on Frankford Road, which passes Mr. Eisenhart's place. Also grows violets.

RICHARDS BROS., Kennett Square, Pa. Iron Frame greenhouse 41'x400'. Pennsylvania R. R. from Broad St. Station to Kennett Square.

J. HOWARD THOMPSON, Kennett Square, Pa. Range of Pipe Frame houses and two Iron Frame houses each 41'x200'. Direction as for Richards Bros.

E. C. MARSHALL, Kennett Square, Pa. Range of Pipe Frame houses; also one Iron Frame house 41'x200'. Directions for reaching same as Richards Bros.

E. N. KRONINGER, Allentown, Pa. Two Iron Frame houses 56'x400'. Take Phila.

& Reading R. R. at Reading Terminal; get off at Allentown, Pa.

THOMAS TANSEY, Crescentville, Pa. Pipe Frame house 35'x200'. Take Phila. & Reading R. R. at Reading Terminal and get off at Crescentville.

ROBERT CRAIG CO., Norwood, Pa. Grow plants. Eight houses 40'x150' and range of Pipe Frame houses each 28'x300'. Pennsylvania R. R. from Broad St. Three squares from station.

MACAW BROS., Norwood, Pa. Grow plants. Four Pipe Frame houses each 35'x150'. Directions for reaching same as Robert Craig Co.

ALBAN HARVEY & SONS, Brandywine Summit, Pa. Grow sweet peas. Range of Pipe Frame houses; also one Iron Frame 60'x200' and one Iron Frame 72'x500'. Take P. R. R. from Broad St., get off at Brandywine Summit.

H. J. MULLER, Bala, Pa. Grows Orchids. Iron Frame house 20'x100' and one 20'x200'. Take Pennsylvania R. R. at Broad St. Station and get off at Bala.

SEABROOK FARMS CO., Bridgeton, N. J. Grow vegetables. Range of six Iron Frame houses 60'x300'. Take Pennsylvania R. R. from Market St. Ferry, Camden, N. J. Get off at Finley Station. N. J. Mr. Seabrook will meet any visitors at Finley Station and take them over to the greenhouses.

WAY BROS., Kennett Square, Pa. Grow vegetables. Two Iron Frame houses each 45'x400'. Take P. R. R. from Broad St., get off at Kennett Square.

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

SALES OFFICES:

NEW YORK
42nd Street Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Widener Bldg.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

CLEVELAND
Sweetland Bldg.

TORONTO, CANADA, Royal Bank Bldg.

MONTREAL, CANADA, Transportation Bldg.

FACTORIES: Irvington, N. Y. Des Plaines, Ill. St. Catharines, Canada.

GERANIUMS

Alphonse Ricard, Beaute Poltevine, S. A. Nutt, Gen'l Grant, Mad. Buchner, Mad. Recamier, Jean Oberlee, Abbie Schaefer, Mad. Landry, La Favorite, Jean Vland and other good kinds, in good 3-in. stock at \$3.00 per 100, \$25.00 per 1000; 2-in. at \$2.00 per 100. We have a large stock on hand for immediate shipment and are booking orders for next season.

BOSTON FERNS, 4-inch, \$15.00 per 100; 7-inch, \$6.00 per doz.; 8-inch, \$1.00 each, \$9.00 per doz. Large plants in 11 and 12 inch pots, \$2.50 and \$5.00 each.

	2-in.	2-in.	3-in.	3-in.		2-in.	2-in.	3-in.	3-in.
	100	1000	100	1000		100	1000	100	1000
ALYSSUM, Dwarf and Giant.....	\$2.00	\$18.50	\$3.00	\$25.00	PARLOR IVY, S. Scandens.....	\$2.00	\$18.50	\$3.00	\$25.00
COLEUS, ten varieties.....	2.00	18.50	3.00	25.00	POMPON CHRYSANTHEMUMS ..	2.00	18.50	3.00	25.00
CUPHEA PLATYCENTRA	2.00	18.50	3.00	25.00	SALVIA, Bonfire and Zurich.....	2.00	18.50	3.00	25.00
LEMON VERBENAS, six varieties.	2.00	18.50	3.00	25.00	SWAINSONA, White.....	2.00	18.50	3.00	25.00
MOONVINES	2.00	18.50	3.00	25.00					

CELERY. White Plume, Giant Pascal and Golden Heart \$1.00 per 1000; 10,000 and over 85c. per 1000.

PARSLEY. Dwarf Fern leaf; 25c. per 100, \$1.25 per 1000.

CASH WITH ORDER.

R. VINCENT, Jr., & SONS CO.,

**WHITE MARSH,
MD.**

LILY OF THE VALLEY PIPS

Danish and German Stock
Booking Orders now for
1916 Crop

LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

CHAS. SCHWAKE & CO., Inc.

Valley

GERMAN, SWEDISH
AND DUTCH PIPS

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....271	Cooke, Geo. H.....254	Gunter Bros.....263	Lord & Burnham	.....255	.....253
Albany Cut	Cowee, W. J.....260	Guttman & Ray-	Co. ....230-272	Penn the Florist.255	Smith, Elmer D.
Flower Ex.....262	Craig, Robt. Co.....235	nor .....262	McHutchison &	Pennock-Meehan	& Co.....235
Allen, J. K.....263	Crawbuck, Geo.	Hall Association.269	Co. ....253	Co. ....256-261	Smith, P. J.....262
Anderson, S. A.....255	W. Co. ....263	Hammond Paint	McManus, Jas.....262	Pierce Co., F. O.270	Smith & Fetter.255
Anglin & Walsh.251	Dards .....254	& Slug Shot	McConnell, Alex.254	Pierson, A. N.....251	Smith, W. & T.
Aphine Mfg. Co.....268	Davenport, A. M.235	Works .....268	MacNiff Horticul-	Pierson, F. R.....233	Nursery Co.....256
Badgley & Bishop,	Dreer, H. A.....233-269-270	Hart, Geo. B.....262	tural Co.....233	Plantlife Co.....268	Smyth, Wm. J.....255
Inc. ....262	Dorner, F. &	Henderson, A. &	Marshall, W. E.	Poehlmann Bros	Stearns, A. T.
Barrows & Son.....251	Sons Co.....235	Co. ....253	& Co.....253	Co. ....234-260	Lumber Co.....270
Bayersdorfer, H.	Dunlop, John H.255	Hentz & Nash.....262	Metropolitan Ma-	Pulverized Ma-	Stumpp, G. E. M.254
& Co. ....257	Dysart, R.....253	Hess & Swoboda.255	terial Co.....269-270	nure Co.....268	Thorburn, J. M.
Bay State Nur-	Eastern Chemical	Hews, A. H. &	Michell, H. F.	Randall's Flower	& Co.....253
series .....233	Co. ....268	Co. ....269	Co. ....253	Shop .....254	Totty, Chas. H.235
Bemb, L., Floral	Edwards Folding	Hill, E. G. Co.....260	Michigan Cut	Reed & Keller.....260	Traendly &
Co. ....258	Box Co.....260	Hill, D. Nursery	Flower Ex.....260	Riedel & Meyer.262	Schenck .....262
Bobbink & At-	Elliott Auction	Co. ....233	Millang, Chas.....262	Reid, Edw.....260	United Cut Flower
kins .....251	Co. ....237	Holland Nurser-	Miller, A. L.....251	Reuters .....255	Co. ....263
Roddington, A. T.251	Ernest, W. H.....269	ies .....251	Moninger, J. C.	Robinson, H. M.	Valentine, J. A.254
Bolgiano & Son.....253	Esler, J. G.....269	Holm & Olson.254	Murray, Samuel.	& Co.....263	Vincent, R. Jr.,
Breck, J. & Sons.253	Evans, J. A. Co.269	Irwin, R. J.....253	254-259	Robinson, H. M.	& Sons Co.....231
Breitmeyer's J.	Eyres .....255	Jacobs, S. &	Mt. Desert Nur-	Co. ....262	Wants, For Sale.267
Sons .....254	Farquhar, R. &	Sons .....270	series .....232	Rochrs, J. Co.....235	Ward, R. M. &
Rudlong, J. A.....260	J. & Co.....236	Kasting, W. F.	National Nur-	Roland, Thomas.254	Co. ....238
Bunyard, A. T.....254	Foley Mfg. Co.....270	Co. ....260	seriesman .....237	Rolker, A. &	Weber, F. C.....255
Burnett Bros.....253	Ford, W. P.....262	Keller, J. B.	Nave, Paul de.....235	Sons .....233	Weiss, Herman.263
Burpee, W. A. &	Ford, M. C.....262	Sons .....254	Nicotine Mfg.	Rosery, The.....254	Welch's .....260
Co. ....253	Fottler, Fiske	Kerr, the Florist.255	Co.....268	Schilling, Max.....254	Welch Bros. Co.260
Carnation Support	Rawson Co.....250	Kervan Co.....262	Niessen, Leo Co.260	Schwake, Chas.	Welch, Patrick.....263
Co. ....233	Froment, H. E.....262	King Construc-	Nut Grower.....267	Co. ....231	Wheeler, Wilfrid.233
Carter's Tested	Galvin, Thos. F.255	tion Co.....269	Oechslin, F.....231	Sharp, Partridge	Wood Bros.....235
Seeds, Inc.....252	Gasser Co., J. M.253	Knoble Bros.....255	Ouwervkerk, P.....251	& Co.....270	Woodrow & Mar-
Chicago Flower	Goddard, S. J.....257	Kramer, F. H.....255	Pallsades Nur-	Sheridan, W. F.262	ketos .....260
Growers' Asso.263	Graham, Adam &	Kroeschell Bros.269	series .....237	Siebrecht, Geo. C.262	Young, John &
Childs, John	Son .....255	Kuebler, W. H.....262	Palmer, W. J. &	Siebrecht, W. R.262	Co. ....262
Lewis .....235	Grey, Thos. J.	Lange, H. F. A.....255	Son .....255	Siggers & Sig-	Young & Nugent.254
Clarke's D., Sons.254	Co. ....253	Leonard Seed Co.253	Park Floral Co.254	gers .....270	Zech & Mann.....263
Clucas, R. W.....237	Gude Bros. Co.	Loechner & Co.231	Parshelsky Bros.270	Skidelsky, S. S.	Zvolanek, Ant. C.253
Coan, J. J.....263	254-257		Pelicano, Rossi		

FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 264, 265, 266, 267

Make the Garden Attractive and Interesting at All Seasons

PLANT THE BEST STOCK OBTAINABLE OF THE RIGHT VARIETIES

*We Have Attained National Reputation with the
Following Specialties :*

ACONITUM (Monkshood). We have a superb collection of these magnificent border plants.

ASTERS (Michælmass Daisies). The new European hybrids are the finest of Autumn flowers.

SENECIO CLIVORUM. One of Mr. E. H. Wilson's introductions. The finest yellow flowered perennial in cultivation. We offer large flowering clumps.

ASTILBES. Complete collection of the beautiful new varieties.

DELPHINIUM BELLADONNA, EREMURI, PHLOX, PEONIES, MONTBRETIAS, LILIES.

We have splendid plants in pots or from the open of **JUNIPERUS PROCUMBENS, JUNIPERUS COMMUNIS, and JUNIPERUS KORIENSIS,** three beautiful hardy evergreens for ornamental ground covering.

A LARGE VARIETY OF PLANTS FOR ROCK AND WALL GARDENING

The Mount Desert Nurseries
BAR HARBOR, MAINE.

The Glory Fern (*Adiantum Farleyense Gloriosa*)

Adiantum Farleyense Gloriosa

THE GLORY FERN or RUHM VON MORDRECHT

This splendid Fern which so closely resembles *Adiantum Farleyense* in appearance, but which does not require the special skill and care in growing that is necessary to produce good plants of *A. Farleyense*, has quickly made a place for itself not only on account of the fact that it can be produced for little over half that of growing *Farleyense*, but also because either in a cut state or as plants used in decorative work, it will outlast the old variety ten to one, making it an available subject where *Farleyense* can not be used at all. Since its introduction some 5 or 6 years ago there has never been a supply large enough to meet the demand. With this in mind we have prepared this season an extra large stock, which is in prime condition and we now offer select

3 inch pots, \$2.00 per doz.; \$15.00 per 100; \$140.00 per 1000
4 inch pots, \$3.50 per doz.; \$25.00 per 100

For a Complete list of seasonable stock see our current Wholesale List.

The above offer is intended for the trade only.

HENRY A. DREER

714-716 Chestnut Street, PHILADELPHIA, PA.

HOLLAND GROWN BULBS HYACINTHS, TULIPS, NARCISSUS, ROSE BUSHES, ETC.

Write for information about the *Mammoth Auction Sales* that we will hold during the coming Fall Season, of Holland's latest and choicest varieties

THE MacNIFF HORTICULTURAL COMPANY

52, 54 and 56 Vesey Street The Largest Horticultural Auction Rooms in the World NEW YORK CITY

POT GROWN STRAWBERRY PLANTS

Splendid stock of vigorous young plants in leading varieties. Also Everbearing Superb and Progressive Plants ready now.

Prices: Standard varieties, 50c. a dozen, \$3.00 per 100, \$25.00 per 1000. Everbearing, 75c. per dozen, \$4.00 per 100.

WILFRID WHEELER

Telephone 154 W. Concord, Mass.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, - N. Y.

BOXWOOD

in bush, pyramid or standard shapes, for Fall delivery, from
The Terra Nova Nurseries at Aalsmeer, Holland
the largest and best growers. The new **TRADE CATALOGUE** is received and will be mailed to applicants by their American Agents.

AUGUST ROLKER & SONS, 51 Barclay St. or **NEW YORK**
P. O. Box 752

TREES

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties.

Sturdy, choice stock that can be depended upon. Send for catalog and special trade prices.

The Bay State Nurseries

North Abington
Mass.

SHRUBS

This New England and climate produces fine sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate.

In Stock ROSE STAKES

EXTRA STIFF No. 9 GALV. WIRE
4 feet—\$11.90 per 1000.

CARNATION SUPPORTS

\$18.00 per 1000 plants.

THE CARNATION SUPPORT CO., Connersville, Ind.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY.
Small, medium and large sizes supplied.
Price list now ready.

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers in America.

BOX 415, DUNDEE, ILL.

In writing to Advertisers kindly mention Horticulture

All Florists Are Invited at Any Time to Visit

POEHLMANN BROS. CO'S GREENHOUSES

THE LARGEST AND MOST UP-TO-DATE GREENHOUSE ESTABLISHMENT IN AMERICA



The above cut shows in the foreground our **PLANT DEPARTMENT**, which is three years old, and consists of 150,000 square feet of glass. This is devoted to **POT PLANTS** of all sizes, such as **Palms, Ferns, Pandanus, Araucarias, Dracaenas, Crotons**, and other **Decorative Stock**, as well as all the **Blooming Plants for Christmas and Easter**. We ship all the year round.

Chrysanthemums and other **Stock for growing on ready for immediate delivery**. **Young Plants and Rooted Cuttings of Carnations, Roses and Mums** will continue to be a feature here, and will be grown by the million next year in all the **Standard Commercial Varieties**.

FIELD CARNATIONS ready now. **CUT FLOWERS** in season. **FLORISTS' SUPPLIES—Ruscus—**have also been added to our stock, and we furnish everything the market affords.

Take Chicago, Milwaukee & St. Paul Railway from Union Depot, Chicago, 14 miles northwest to Morton Grove, Ill.

CALL AT OUR CITY STORE

OUR **SUPPLY DEPARTMENT** will surprise you in the variety and quality of the stock. Be sure to send for samples and prices before you buy **Florists' Fall Decorative Material**. Get our prices on **Plant Tubs**. We are headquarters for these.

POEHLMANN BROS. CO.

72 and 74 E. Randolph Street, CHICAGO, ILL.

OUR EXHIBIT OF GERMAN IRIS

Won FIRST PRIZE at the

International Garden Club, Summer Show, Pelham Manor
June 1-4, 1916

JOHN LEWIS CHILDS, INC.,
FLOWERFIELD L. I., N. Y.

CARNATIONS

Field Grown

ENCHANTRESS SUPREME. EUREKA
WHITE WONDER. PINK DELIGHT.
\$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL,
MATCHLESS,
\$7.00 per 100; \$55.00 per 1000.

LADY NORTHCLIFF, PINK WINSOR,
WHITE WINSOR.
\$6.00 per 100; \$50.00 per 1000.

WOOD BROS., FISHKILL,
N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ELMER D. SMITH & CO. CHRYSANTHEMUMS

Ask for Catalogue

ADRIAN, - - - MICH.

CHARLES H. TOTTY
CHRYSANTHEMUMS
MADISON, N. J.

ORCHIDS

CONSERVATORY PLANTS
BEGONIAS

Lorraine, Cincinnati and Mrs. Peterson
JULIUS ROEHRS CO.
Rutherford, N. J.

ORCHIDS

Just received a grand importation of
Lycaste Skinneri. We also carry a choice
line of established plants at all times.
Write for prices now.

PAUL DE NAVE
ORCHID GROWER.

Tel. Connection. FALL RIVER, MASS.

Prepare for the Fall Rush

STOCK YOUR HOUSES WITH

CRAIG QUALITY STOCK

It will prove profitable if you do it NOW

Cyclamen, 2½ in. pots, \$8.00 per 100,
\$75.00 per 1000.

Cyclamen, 4 in. pots, \$25.00 per 100,
\$225.00 per 1000.

Genistas, heavy stock, 6 in. pots, \$6.00
per doz.; \$40.00 per 100.

Begonia Lorraine, extra heavy stock,
4 in., \$15.00 per 100.

Begonia Cincinnati, extra heavy stock,
4 in., \$40.00 per 100.

Begonia Konkurent, improved Cincin-
nati, 4 in., \$50.00 per 100.

Begonia Florence Davenport, 4 in., \$10.00
per 100.

Crotons, extra fine stock, 4 in., \$30.00
per 100.

Crotons, extra fine stock, 5 in., \$6.00 and
\$9.00 per doz.

Dracaena Kellermaniana, 2½ in., heavy,
\$15.00 per 100; \$125.00 per 1000.

Phoenix Roebelenii, 10 in. and 12 in.
tubs, \$5.00, \$6.00, \$7.50 and \$10.00 each.

Ficus Pandurata, 6 in. pots, 2½ ft.
tall, \$2.00 each.

Ficus Pandurata, 7 in. pots, 3 ft. tall,
\$2.50 each.

Ficus Pandurata, 7 and 8 in. pots, 4 ft.
tall, \$3.00 each.

Ficus Pandurata, 10 in. and 11 in. tubs,
\$4.00, \$5.00, \$6.00 and \$7.50 each.

Gardenia Veitchii, extra heavy, 4 in.,
\$20.00 per 100; \$180.00 per 1000.

Ficus Utilis, very fine stock, 6 in. pots,
24 in. to 30 in. tall, \$2.00 each.

Larger plants, \$3.00, \$4.00, \$5.00, \$6.00
and \$7.50.

Ficus Craigii, 4 in. pots, very fine, \$35.00
per 100.

Otaheite Oranges, strong stock for
growing on; 2½ in. pots, \$8.00 per 100;
\$75.00 per 1000.

Asparagus Sprengeri, heavy, 2½ in.,
\$5.00 per 100; \$45.00 per 1000.

Asparagus Plumosus, extra heavy, 4 in.,
\$12.00 per 100; \$100.00 per 1000.

Areca Lutescens, 6 in. pots, \$12.00 per
doz.

TEDDY, JR., FERNS

Fine young plants from 2½ in. pots.
\$3 per doz.; \$7 per 100; \$60 per 1000

6 in. pots, \$6 per doz.; \$45 per 100

4 in. pots, \$20 per 100; \$180 per 1000

8 in. pots, \$12 per doz.; \$90 per 100

NEPHROLEPIS JOHN WANAMAKER

"The Wanamaker Boston Fern"

A "sport" from Nephrolepis Scholzell,
with longer, narrower, gracefully droop-
ing fronds. It is not so compact in
growth as Scholzell, and therefore does
not decay in the center, and is a durable
house fern. It is a rapid grower, making
an abundance of fronds, and is quite dis-
tinct from any other Nephrolepis.

2½ in. pots, \$8 per 100; \$75 per 1000

4 in. pots, very heavy plants, \$25 per 100; \$200 per 1000

6 in. pots, very heavy plants, \$6 per doz.; \$45 per 100

6 in. pots, extra heavy plants, \$9 per doz.; \$70 per 100

8 in. pots, \$12 and \$15 per doz.

11 in. tubs, \$2.50 and \$3 each

NEPH. TEDDY, JR., SPORT

We think very well of this fern, it hav-
ing all the good qualities of its parent,
Teddy, Jr. The fronds are of darker
green and more undulated.

2½ in. pots, \$8 per 100; \$75 per 1000

4 in. pots, \$25 per 100; \$200 per 1000

NEPH. BOSTONIENSIS DWARF

This is a dwarf form of the old Boston
Fern, same character form and graceful
habit.

2½ in. pots, \$8 per 100; \$75 per 1000

NEPHROLEPIS ELEGANTISSIMA IM- PROVED

This variety is a greatly improved Ele-
gantissima and shows no tendency to re-
vert to the Boston. This will prove a
valuable addition to the crested varieties.
2½ in. pots, \$6 per 100; \$50 per 1000
6 in. pots, \$6 and \$9 per doz.
8 in. pots, \$12 and \$15 per doz.
Larger plants, \$2, \$2.50, \$3 and \$3.50 each

NEPHROLEPIS TODEAOIDES

London Fern. A good, strong grower.

2½ in. pots, \$5 per 100; \$45 per 1000

4 in. pots, \$20 per 100; \$180 per 1000

6 in. pots, \$6 and \$9 per doz.

8 in. pots, \$12 per doz.

9 in. & 10 in. tubs, \$24, \$30 and \$36 per doz.

NEPHROLEPIS SMITHII

The greatly improved Amerpohlii. It is
a compact form, much finer than Amer-
pohlii, and does not break down in the
center. The fronds are carried on wiry
stems. This variety will have a wonder-
ful sale up to a 6-inch pot, being par-
ticularly showy for basket work.

2½ in. pots, \$8 per 100; \$75 per 1000

4 in. pots, \$25 per 100

NEPHROLEPIS BOSTONIENSIS

Wm. K. Harris

The finest variety for large plants, be-
ing a great improvement over the old
Boston.

2½ in. pots, \$6 per 100; \$50 per 1000

4 in. pots, \$20 per 100; \$180 per 1000

6 in. pots, \$6 per doz.; \$45 per 100

11 in. tubs, \$2, \$2.50, 3, 4 and \$5 each

NEPHROLEPIS ROBUSTA

Place orders at once for Nephrolepis
Robusta. The Silver Medal Fern at the
National Flower Show, winning over all
competition. We claim this variety to be
the finest of all crested Nephrolepis, being
exceptionally fine in large sizes. It is the
strongest grower of all the Nephrolepis
Ferns, never reverts, and every plant is
symmetrical and salable in all sizes.

6 in. pots, strong plants, \$50 and \$75 per 100

8 in. pots, strong plants, \$12 and \$15 per doz.

11 in. tubs, \$3 and \$3.50 each

NEPHROLEPIS SCOTTII

Our stock is in superb condition.

2½ in. pots, \$5 per 100; \$45 per 1000

4 in. pots, \$20 per 100; \$180 per 1000

6 in. pots, \$6 per doz.; \$45 per 100

8 in. three-quarter pots, \$12 per doz.; \$90 per 100

11 in. tubs, \$2, \$2.50 and \$3 each

NEPHROLEPIS ELEGANTISSIMA COM- PACTA

A dwarf, compact form of Nephrolepis
Elegantissima, each plant making an
ideal shape.

2½ in. pots, \$6 per 100; \$50 per 1000

6 in. pots, \$6 per doz.

8 in. pots, \$12 per doz.

NEPHROLEPIS SCHOLZELI

This is an ideal crested Fern, holding
the same relation to all other crested
ferns that Scottii holds to the old Boston.

2½ in. pots, \$6 per 100; \$50 per 1000

4 in. pots, heavy, \$20 per 100; \$180 per 1000

6 in. pots, heavy, \$6 per doz.; \$45 per 100

8 in., three-quarter pots, \$12 per doz.; \$90 per 100

11 in. tubs, \$2 and \$3 per doz.

(Baranch: Norwood, Pa.)
Robert Craig Co. 4900 MARKET ST. Philadelphia, Pa.

FERNS IN FLATS

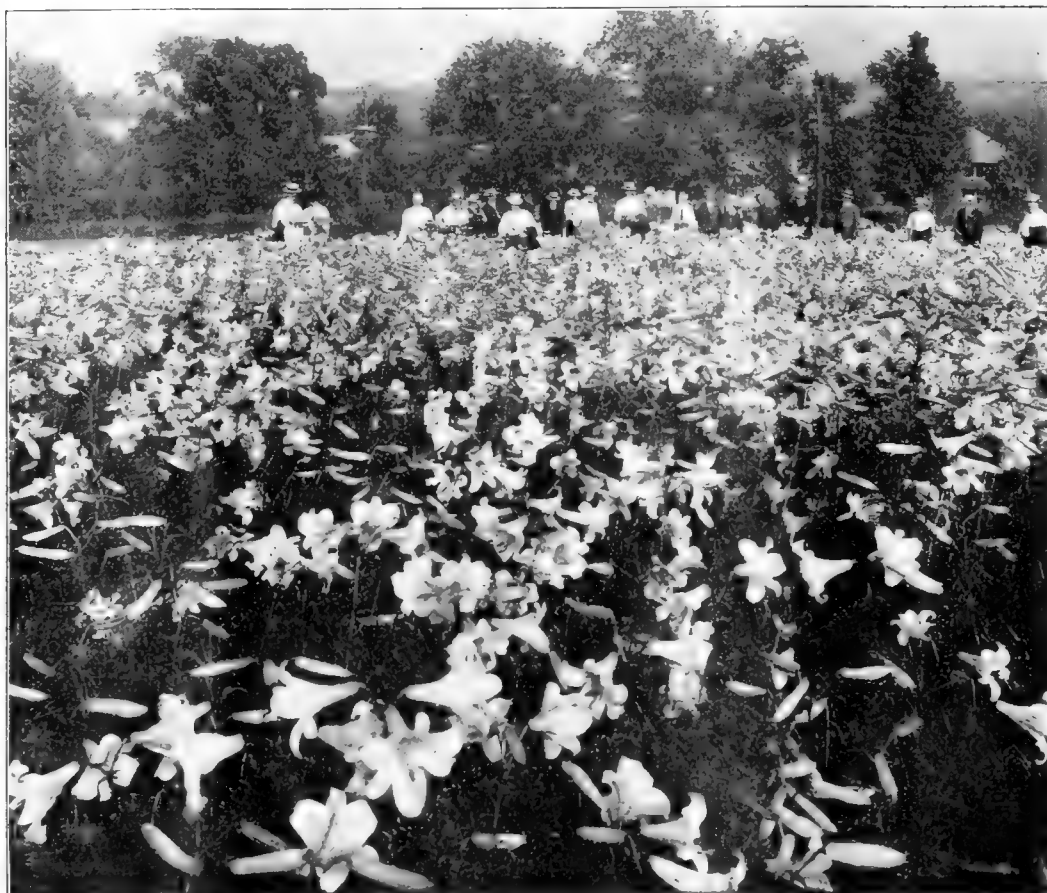
Eight Best Varieties—200 Clumps to a Flat

\$2.00 per flat; 10 or more flats, \$1.90 each

A. M. DAVENPORT, Watertown, Mass.

THE REGAL LILY

Lilium Regale (myriophyllum)



The Horticultural Club of Boston inspecting Farquhar's field of the Regal Lily.

Acknowledged to be the finest horticultural introduction in several generations

Gold Medal Massachusetts Horticultural Society
Gold Medal, National Flower Show, New York
Gold Medal, Royal International Exhibition, London, 1913

Price \$10.00 per Doz; \$75.00 per 100
Trade Price, \$60.00 per 100

Sold by the leading up-to-date dealers in

NEW YORK

PHILADELPHIA
AND OTHER CITIES

CHICAGO

Also by

R. & J. FARQUHAR & CO.
6 SOUTH MARKET STREET : BOSTON, MASS.

All Kinds of Plants

Everything that Blooms for the Christmas Trade
and Something for All the Year Round

FERNS FOR DISHES ONE OF OUR SPECIALTIES

Large Stock of BOSTON and WHITMANI FERNS
PALMS, DRACAENAS in Variety
PANDANUS, ARAUCARIAS and Other Decorative Stock

VISITORS ARE INVITED TO VISIT OUR HOUSES AT ANY TIME
Madison Street Car, West to 48th — Greenhouses Three Blocks South

FRANK OECHSLIN

4911 W. Quincy Street, Chicago, Ill.

ANNOUNCEMENT

Commencing December, 1916, I shall disseminate

Crimson Carnation Doris

Awarded A, C, S certificate at St. Louis, January, 1916, scoring 88 points after being in the boxes on the trip 48 hours. This will give some idea of its keeping and shipping qualities. Habit erect, producing an abundance of high-grade flowers on long stiff stems, fine color, calyx very seldom splits.

Price, \$12 per 100, \$100 per 1000

S. J. GODDARD,

Framingham Centre,
Mass.

OLDEST AUCTION HOUSE IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co

42 Vesey St.,

New York

REMEMBER!

If it's a Hardy Perennial or so called Old Fashion Flower worth growing, we have it in one shape and another the year round. We have the largest stock in this country, all made in America, and our prices

will average 75c. per doz., \$5.50 per 100.

Why say more here? Send for our Wholesale Price List of varieties and benefit from the opportunities this affords you. Address

PALISADES NURSERIES, Inc.

R. W. CLUCAS, Manager.

SPARKILL

N. Y.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

HATBORO, PA.

When Writing to Advertisers Kindly
Mention HORTICULTURE

FOR IMMEDIATE PLANTING

The following bulbs are from the very best sources of supply in the world. Order now— the supply is not very large this year



LILIUM HARRISII

Size, 5 x 7".....	\$5 per 100	\$16 per case of 400 bulbs
" 6 x 7".....	\$6 "	\$17 " 350 "
" 7 x 9".....	\$9 "	\$17 " 200 "

LILIUM FORMOSUM

Size, 6 x 8"....	\$ 5 per 100	\$14 per case of 350 bulbs
" 7 x 9"....	\$ 7 "	\$17 " 270 "
" 9 x 11"....	\$10 "	\$14 " 150 "
" 10 x 11"....	\$11 "	\$14 " 140 "
" 11 x 13"....	\$12 "	\$14 " 120 "

PAPER WHITE GRANDIFLORA

First Size.....	\$6 per 500	\$12 per case of 1250 bulbs
Extra "	\$8 per 500	\$15 per case of 1000 bulbs

ROMAN HYACINTHS

12 and over,	\$4.50 per 500.	\$25 per 1000	\$50 per case of 2000 bulbs
--------------	-----------------	---------------	-----------------------------

COLD STORAGE GIGANTEUM

Limited Quantity Only

Size, 7 x 9".....	\$ 8.50 per 100.	\$25 per case of 300 bulbs
Size, 8 x 10".....	\$12.00 per 100.	\$25 per case of 250 bulbs

BAMBOO CANES

Natural Canes

5 x 6 ft. long.....	\$ 6.75 per bale of 1000
" " "	\$11.50 " 2000
8 ft. long.....	\$10.50 " 1000

Colored Green

3 ft. long.....	\$10.00 per bale of 2000
3 1/2 "	11.00 " 2000
5 "	8.00 " 1000
5 "	15.00 " 2000

The Famous Horseshoe Brand Giganteum will be due to arrive from Japan very soon now and you may need some of them. Prices are as follows

LILIUM GIGANTEUM

Size, 6 x 8"	\$ 4.00 per 100.	\$14.00 per case of 400 bulbs
" 7 x 9"	\$ 6.00 "	\$15.00 " 300 "
" 9 x 10"	\$10.00 "	\$19.00 " 200 "

Other sizes quoted upon application. Remember if you order in time we can deliver from various cities in the U. S. A. and Canada.

RALPH M. WARD & CO.

The Lily House

71 MURRAY STREET

::

::

NEW YORK CITY

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—*Cope.*

Cattleyas

Species such as *C. labiata*, *Trianae*, *Mossiae*, *Percivaliana* and others in active growth, will need a liberal supply of water more than *C. Gaskelliana*, *Dowiana* and others which are just coming into growth. Watering should be done in the morning and a spraying each clear afternoon should be given. Do it sufficiently early so that it will dry before night. Night temperatures are variable during September. As a general rule it can run from 60 to 65 degrees. Some nights it will be higher and it will do no harm if it falls to 58 degrees on cool evenings. It is not a good plan to shut the house up tightly on a cool night. Leave some air on to keep the atmosphere pure. Those who can afford roller or other movable shades have a great advantage in being able to give their plants a maximum of light when it is most needed. Keep them well ventilated.

Freesias

In planting freesias we find that the long thin bulbs give far better results than the thick, heavy ones usually sold. Quantity of freesias is not wanted at any particular time, but a succession should be kept up. Give 55 to 60 degrees at night, plant one inch apart in rows, and the rows four inches apart, a few hundred at once, and the same every month. The bulbs will start into growth quickly after September and should have full light as soon as the shoots appear above the soil. The freesia is good on a north and south bench—such a bench as you would use for carnations or mignonette, four inches of soil is enough. After they become well rooted they will stand any amount of feeding.

Lorraine Begonia

Give the plants plenty of room so as to make symmetrical specimens. *Begonia Gloire de Lorraine* at this season is making its fastest growth. They should have a tying now, placing one stake in the center, and looping with raffia each shoot loosely and repeat as the plants may require it. Those that have not been shifted into their final pots should be done without delay. A good compost is turfy loam three parts, sand two parts, and well-rotted cow manure one part. The best kind of pots is azalea pots in 5, 6 or 7 inch. Do not keep them too heavily shaded from this out.

Nephrolepis

One of the surest ways to kill a fern is to let it wilt from being too dry at the roots. Another way but a trifle slower is to keep it soaked and soggy. This suggests the exercise of watchfulness in the watering of ferns of all kinds, but Boston ferns in particular during periods of abnormal weather conditions want care in this line. Ferns of the original Boston type, as also some of the newer forms that were planted into benches last spring have done very well and are now a mass of erect, sturdy frondage. It is now time to work them up into salable form, if not already taken in hand. A fern

compost is three parts fibrous loam, two of leaf mold and one of well-rotted and sifted cow manure. See that the pots are well cleaned and have good drainage. It is only when afforded sufficient time, after being made up into specimens of healthy plants in the transfer from bench to pot that these ferns become the best of marketable decorative plants.

Plants for Christmas

A count-up will very often reveal the want of some stock which at the present time can be advantageously procured through consulting the advertising columns of HORTICULTURE. Now is the time to buy. Among the plants most in demand at Christmas as pot plants are poinsettias, *Begonia Gloire de Lorraine*, adiantums, cocos, pandanus, lilies, cyclamens, azaleas, primulas, ardisias, celestial peppers, Jerusalem cherries, oranges, araucarias, ferns, palms, etc.

Reminders

Where you have late seeds sown see that they do not dry out too much.

Pull up and burn all diseased asters. This helps to keep the disease from spreading.

Nothing is more productive of poor crops than alternate dry and very wet spots on benches of growing crops.

Now that the bulb season is coming have plenty of finely sifted ashes on hand and some long labels to mark them.

Next Week—Bourvardias; Carnations; *Lilium giganteum*; Mil-tonight; Transplanting large Palms; Reminders.

Jackson Dawson: In Memoriam

That is a piece of shocking, though rather expected news which the last issue of HORTICULTURE brings us of the death of old and true Jackson Dawson, beloved by all who had the privilege of his personal acquaintance. Such men as Jackson Dawson are privileged gifts of kind Providence to humanity; his worth is appreciated by all who love nature; he was a beaconlight among botanists and horticulturists. I have always felt the highest admiration for the man and his achievements. I shall always treasure his memory in my innermost soul, and I feel convinced that Jackson Dawson through his work here in our midst has made himself immortal for all future. He has found his reward and his rest. Requiescat. Yours in fullest sympathy.

Friedrich Roelker

New York.

HORTICULTURE

VOL. XXIV

AUGUST 19, 1916

NO. 8

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 147 Summer Street, Boston, Mass.

Telephone, Oxford 292.
 WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Robert C. Kerr, President-Elect, Society of American Florists.	
NOTES ON CULTURE OF FLORISTS' STOCK—Cattleyas—Freesias—Lorraine Begonia—Nephrolepis Plants for Christmas—Reminders— <i>John J. M. Farrell</i>	239
JACKSON DAWSON. IN MEMORIAM— <i>Winfried Roelker</i>	239
ROSE GROWING UNDER GLASS—Late Planting—Lime—Spraying with Copper—Ventilation— <i>Arthur C. Putzka</i>	241
SOCIETY OF AMERICAN FLORISTS—Thirty-Second Annual Convention—Opening Session—President's Address—Secretary's Report—Treasurer's Report—Report of Washington Representative—Report of the School Garden Committee—Tuesday Evening Session—President's Reception—Wednesday's Session—Trade Exhibition—Portraits—Florists' Hail Association.	242-248
TEXAS STATE FLORISTS' ASSOCIATION.....	248
DURING RECESS—Westchester and Fairfield Horticultural Society—Boston Market Gardeners.....	248
AMERICAN GLADIOLUS SOCIETY.....	249
CLUBS AND SOCIETIES—Canadian Horticultural Association—Westchester and Fairfield Horticultural Society—Coming Exhibitions—Nassau County Horticultural Society—St. Louis Florist Club—Morris County Gardeners' and Florists' Society—Notes.....	250
SEED TRADE—Federal Seed Import Law Amended—Crop Notes by Bureau of Estimates—Low Germination of Crimson Clover Seed—Important Customs Ruling—One Week's Imports—Notes.....	252
OF INTEREST TO RETAIL FLORISTS:	
New Flower Stores.....	254
Flowers by Telegraph.....	255
NEWS ITEMS FROM EVERYWHERE:	
Chicago, Pittsburgh, Washington, Philadelphia, Cincinnati, Boston	256-257
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago, Cincinnati, New York, Philadelphia, Pittsburgh	261
St. Louis, Washington.....	263
MISCELLANEOUS:	
New Corporations	248
Business Troubles	250
Catalogues Received	252
News Notes	254
A Gladiolus Pete.....	258
The New "Rainbow" Freesias— <i>Winfried Roelker</i>	258
Visitors' Register	263
The White Pine Blister Rust.....	268
Freakish Facts and Factless Freaks.....	268
Massachusetts Agricultural College.....	269
Patents Granted	269
Greenhouses Building or Contemplated.....	269

An
epochal
convention

The Houston Convention has passed into history and the outcome of the sedulous efforts of the Texas florists seems to have amply justified the National Society in its decision to extend to the South the courtesy of a visit. While we should be sorry to see the custom of electing a president from the city in which a Convention is held and the elevation of every vice-president to the presidency, become an established invariable rule in the S. A. F., yet it must be said that if ever any man deserved election to that high office by reason of earnest, persevering and faithful work, it is the man whom the Convention has so honored on this occasion and we have not the slightest doubt that the year of his administration will be a busy one for him and his fellow-officers in the national organization. We are not fully in accord, however, with everything done at Houston. We should have preferred that the good old plan of the appointment of two directors by the president-elect had been retained. Some of the best workers in the ranks, some of the best presidents the S. A. F. has had, were "discovered" and first brought into active service through the judicious exercise of this privilege by the incoming presidents—men who would never have "run for the office" had such a course been required. It is our sincere hope that the new method of selecting directors may work out as well for the Society as the one which has now been abandoned as "antiquated." To the other constitutional changes we see no particular objection but it may be advisable for the Society to get legal assurance that they have made no mistake under the Charter of the Corporation in adopting the plan of a movable annual meeting based on convenience. The Charter makes the place for the annual meeting optional, but gives no authority to depart from the universal corporation rule as regards the date for holding an annual meeting. The selection of New York for the Convention of 1917 after an interim of seventeen years will meet with general satisfaction throughout the country and the election of A. L. Miller as Vice-President means that "there'll be something doing" right along.

An old
problem

The American Gladiolus Society has been struggling with that hoary old problem—the "amateur" versus the "professional" exhibitor, as to where to draw the line to properly classify each and how to apportion the emoluments and honors so that all classes will get a fair show in the exhibition hall. Like many another earnest and well-meaning body of men before, they find in their ranks almost as many different views on this subject as there are members, and it would seem that the only thing to be done is to follow a "middle-of-the-road" course as it is impossible to satisfy everybody. We are of the opinion, however, that exhibitors, amateurs especially, are not so captious and inconsolable when they fail to win all the honors, as we sometimes think. With the deserving amateur the aspiration to approach perfection for the very love of the work and the pleasure of achievement is as potent as the ambition to win prizes and an occasional or even frequent failure on the latter will neither dispirit nor deter him from future effort, but incite him, rather, to renewed exertion to attain the goal.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Late Planting

If there are any benches that are not planted by this time they should be rushed right through so that the plants will have a little chance to get established before the cold and perhaps dark weather comes this fall. As mentioned before in these columns care should be taken to see that there is plenty of drainage in the benches so there will be no trouble with the plants drying out unevenly. Also see that the benches are not filled too full. Five inches of loose soil is plenty, as this will firm down to four, which is enough to grow any rose that we know of. If necessary more soil can always be added in the form of mulch but it is very difficult to remove soil from the benches once the plants are planted. Then there is another side to it, and that is the wheeling in and out and putting up the heaps. For a fair-sized place this will be quite an item and every inch of soil means so many dollars and cents. While the plants are being knocked out of pots see that all spot that may be on the plants is removed while the plants are still in the old house. It is not a very good idea to clean them after they are planted, as it will bring the disease into the new house, where if things were done right everything is clean. Care should also be taken to rub off all green scum that may have formed on the ball of the plant while in the pot. Do not take half of the ball away but merely rub off the surface of the soil. Another thing to watch with late planting is to see that the ball is not broken when planting. Some growers have a habit of pressing the plant into the soil. This is wrong and very harmful, for as soon as the ball is broken, hundreds of little roots are torn, and that is why some plants get a severe check, while others planted carefully with ball intact will start right in and grow like weeds. The proper way to plant is to use a trowel, making hole in the soil, plenty large enough, then setting the plant in and firming the soil in around the ball instead of pressing the ball into the soil. No damage is done this way and in a week the roots are away out in the soil. With old plants care should be taken to see that the roots are spread properly so that there will be no bunched-up roots. It is a poor idea indeed to bunch up all the roots in a ball and then stick the plant in. It is only done through ignorance or laziness, as the proper method means more work. The difference is seen later in that while the plants with bunched-up roots are setting and not making a move, those that were planted right will be cutting extras and fancies.

Lime

It is not too early in the season to begin using lime at night after each watering and syringing, more so in the houses that were planted quite early and have made some growth. Use dry air-slacked lime, well screened to make it easy to apply with a pair of bellows. Blow the lime in under the plants, being careful not to

use too much power so that the dust will not be blown away out on the other side of the bench and into the walk where it will do no good at all. The proper way is to blow gently to about the center of the bench and let the lime slowly rise among the plants, taking moisture with it and then settling down gradually, moisture and all. It will also be well to use lime on chilly rainy days when there is no heat in the houses and the air naturally is damp and cold. Lime alone will not correct conditions but it will go a good ways to prevent mildew and spot, both of which promise to be very destructive this year because of the extremely wet weather, around here at least. We have heard of dust up New York State and rain badly needed in other parts of the country, but we have had more than our share of rain this year. Growers in the dry section cannot make a mistake by using lime, as it will not harm the plants in the least and if properly blown under the plants just before sunset will do a lot of good.

Spraying with Copper

We would advise all growers who have even a little trace of spot on their plants to use copper freely this year. The ammoniacal copper carbonate mixture such as has been recommended by us time and time again in these columns. Twice a week will not be too often to apply it and as it can be applied with Nicotine, it need not take much extra time. To apply use plenty of pressure, and a fine nozzle that will throw a fine mist rather than send the spray out in fine drops. It is better to fog all the foliage than to have a wet spot here and there, as the idea is to hit as many of the spores as is possible and destroy these. Growers should not think for a minute though that free use of copper will make their plants immune to attack, as the plants are liable to get spot anyhow if everything is not done to keep them healthy. Because they are sprayed with copper is no reason why other cultural work should be half done or neglected.

Ventilation

Cool nights have already hit us and there is a feeling in the air that fall will soon be here. On nights like these the finest thing to have would be a warm steam pipe in each house, but this is not always possible. What growers should guard against is the closing of the houses down tight at night as soon as a cooler night comes. The plants will stand up much better if they are a little cooler with air than a degree or two warmer with no air at all. In old leaky houses of the low type a crack of air will be plenty but in new wide houses that are tight, as rose and in fact all greenhouses should be, at least six inches of air should remain on all night. Even with heat it will be better for the plants to have plenty of fresh air. With the wide high houses there is not much danger of cold air hitting the plants and giving them mildew. If the ventilators are shut down tight moisture will condense on the glass as well as on the plants and this is not very good for healthy rose growth. Try to avoid it by free ventilation.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

Thirty-Second Annual Convention, Convention Hall, City Auditorium, Houston, Texas, August 15, 16, 17, 18, 1916

Meetings Well Attended by Southern Members—R. C. Kerr of Houston, Texas, Unanimously Elected President—All Constitutional Amendments Adopted Without Debate—New York Chosen for 1917 Convention, St. Louis for 1918

OFFICERS ELECTED—President, Robert C. Kerr, Houston, Texas; Vice-president, A. L. Miller, Jamaica, N. Y.; Treasurer, John J. Hess, Omaha, Neb.; Secretary, John Young, New York City

OPENING SESSION.

The Convention opened promptly according to schedule on Tuesday afternoon, August 15, in Convention Hall. The meeting was called to order by Vice-President Kerr, and after prayer by Rev. W. S. Jacobs, Hon. Ben. Campbell, Mayor of Houston, extended a whole-souled welcome to the visitors from afar, to which W. F. Gude made an appreciative response. President MacRorie received a vociferous greeting as he stepped to the front to deliver his address.

PRESIDENT'S ADDRESS.

Ladies and Gentlemen:—

It hardly seems a year ago that our great National Society sat in Convention at San Francisco, California. I distinctly recall the genuine pleasure and the pride that I experienced at that time; the pleasure of seeing in the West so many representative members, and the pride of being honored with a visit by these men who had travelled many thousands of miles to further the interests of our organization. To you, brethren, in this beautiful City of Houston, I bring from California and the West the hearty good wishes of all the craft. Our brothers from the East, the North and the middle West, by their presence bespeak their loyalty. This Convention in Houston means a great victory to you, and you should likewise feel a pleasure and a pride in the work that you have accomplished. It has not been a simple matter to instill into the minds of all our members the necessity of making our society in every sense a national one, nor was it a simple matter to bring this Convention to Houston, but when I look about me and see this wonderful representation, I feel that our efforts have not been in vain. I feel that the South "knows how," and I feel that the Society of American

Florists has acquired an added power, the power of the spirit of the South. We need that spirit and we welcome it, and hope that it will work with us, not only today, but every day in the future.

With the advent of the first convention in the South, the Society of American Florists has opened a new chapter in its history, and, of those,



DANIEL MACRORIE

President Society of American Florists

here assembled in Convention I am sure that there is not one member who is not fully convinced that our move to this wonderful southern field was a move in the right direction.

It is my sincere desire that the support from the South shall be unwavering and constant. When I say support I allude partly to a platform of in-

creased membership. This has been an issue of our Society for several years, and it is no less important today than it has been in the past. It is not so much the idea that any one of us should distinguish himself by bringing in a great number of new members. Everyone of us individually should exert himself to influence every eligible person in his district with whom he comes in contact to join our national society. Our members number today about two thousand, and I hope that before another year is over that we can boast of a membership of three thousand. The effort of this increase should not rest entirely upon the State vice-presidents; it should be the effort of every member individually.

It should not be necessary for me to expound to you the advantages to be gained by such an increased membership. Our usefulness as a national society increases as our membership increases. I would impress upon you particularly the fact that when this Convention is over the work of enlargement in this southern territory continue with the same unty of purpose with which it started, for in such unity there is strength, and we need that strength to accomplish the work that lies before us, and to accrue those benefits which can only be accomplished by thorough organization. Although this is the first Convention held in the South, it shall not be the last. As a national society we must necessarily convene from time to time in all parts of the country, without discrimination, and our society should represent every man engaged in horticulture, whether he be from the North, the South, the East or the West.

Reviewing the divers matters that were brought before the Executive Board at its meeting in March of this year, I wish to say that I am heartily in accord with everything that has been set down, and touched upon by my predecessors, but would ask your

indulgence, while I review some of the matters that have come up during my tenure of office.

National Flower Shows.

The greatest and most successful undertaking in the history of the Society was the Philadelphia Flower Shows of 1916. Philadelphia crowned herself with honors at that show. We cannot bestow upon Chairman Asmus and his able committees too much praise for the splendid work they accomplished in staging this exhibition, and we cannot overlook the co-operation of our subsidiary societies whose wonderful displays of roses, carnations and sweet peas made the show even more attractive, and whose special days brought many thousands of visitors through the gates who had already visited the show. The total gate receipts, representing over one hundred thousand paid admissions, are an indication of how wonderful the displays were. I know that this show will pass into history as the greatest flower show ever held on the American continent. Taking the exhibition from every point of view I think that we must agree that the exhibits were far ahead of anything that has ever before been attempted.

At this point I wish to touch upon the advisability of holding our Conventions on concurrent dates with the National Flower Shows; that is to say, I believe that every second year our annual Conventions could be held in March or in April, or at such time as we decide to have our National Flower Show. The old idea that it would be impossible to secure a good attendance at our Convention at any other date than August, has not proved itself to be a fact. I observed with keen interest at the National Flower Show in Philadelphia, that a great many representative men of our profession from all parts of the United States and Canada were present. It is just this material that is wanted at our National Conventions. To me the National Flower Show had more of the Convention spirit than many of the Conventions that I have attended. At this Show we all concentrated our thoughts on the work that is common among us, and when we left we all felt that we had learned a great deal that would help us in the future. I believe that the spring time is the logical time for our National Shows. A great factor in making a National Show a success in the spring time is the fact that all humanity awakens with a keen appreciation of the beautiful, after a long season when plant life has been practically dormant. Just as the flowers burst forth to welcome the sunshine of the spring, so the spirit of human nature bursts forth with a keen appreciation and eager desire to see and enjoy the beauties of nature. There are many matters of interest that appertain to our work that are called to our attention at National Flower Shows. These matters could be taken up while we are in Convention and I believe that the immediate benefits that would be derived by discussion and through the comparison of notes, would be of far more benefit to us than the social programs which of late years have been characterizing our August Conventions. There are undoubtedly from six to eight large cities

in the United States where the National Flower Shows could be held and where they would be very successful. With this number of cities to draw on, a number of years would naturally elapse before we would complete our circuit and no one city would ever be burdened with a succession of shows. In the smaller cities where we could convene on alternate years, it should be the privilege of the host-city to set the date for the Convention, for when a man invites a guest to his home he aims to have it at its very best; so the Convention City should also have that privilege.

Before I leave the matter of Conventions I want to say that I have noted in past years that there has been a decided tendency to indulge in extended social program. This, of course, has been very pleasant, and duly appreciated, but it seems that we are in a measure losing the purpose for which we assemble. Our Conventions are primarily for trade benefits, and much of the time that is given to entertainment could be utilized for better purposes. Many of the smaller cities that would be glad to have a Convention hesitate because of the expense of entertaining our members, and this condition should not exist, for our purpose as a national society is the promotion of the great work that lies before us. I would, therefore, urge the executive board to carefully weigh these matters. First, the joint sessions of the National Flower Show and the Annual Convention on every second year. Second, the elimination of elaborate entertainment at Annual Conventions, and a strict adherence to matters that will be of trade benefit.

Convention Gardens.

Another instructive feature of our Conventions is the "Convention Garden." The merits of such displays have been well outlined by my predecessors, Mr. Theodore Wirth, and Mr. Patrick Welch, and I heartily agree with them in their views.

Children's Gardens.

Still another phase of our work toward which I would direct your attention is the promotion of an interest in children's gardens. We all know that the love of flowers is indicative of the highest form of civilization, and it is the mission of every member of the Society of American Florists to help to instill the love of flowers and plant life in the hearts of the young. I do not think that we fully realize the extent of the influence toward the moral uplift and esthetic development that is due to the love and appreciation of flowers, and I would, therefore, urge that the Society give its fullest support toward the promotion of the school gardens.

I hope that every member of the Society of American Florists has read with interest the excellent report of our school garden committee of 1915. This committee must have stimulated a great interest in school gardens throughout the country. However, our work does not end there. Further-reaching influence can be exerted by parental oversight and encouragement. It is, therefore, also an individual duty of the members of the Society of American Florists to aid in the promotion of school gardening by wisely administering encouragement and in-

terest in the work of our children, for, in the end, this work of beautification is our chief vocation.

Permanent Secretaryship.

I would ask you to review with me also a matter that for the past months has been of considerable concern to me. I have noted that as our Society grows the administrative work also assumes larger proportions. I believe that we are now large enough to have a secretary who devotes his entire time toward the furtherance of our interests. I believe that such a man should have no other business enterprises to occupy his mind. I would recommend that we make the office of secretary one with sufficient remuneration to keep a man who can devote his entire time toward the promotion of our interests. There will be no lack of work for such a man. He will be constantly occupied, promoting the interests of the society. Should the Convention and National Flower Show fall on concurrent dates, our secretary would have the twofold duty of attending to matters appertaining to both the Convention and the Flower Show. I wish, therefore, that the society would consider very carefully the expediency of adopting the above suggestion. This office should not be a temporary one, and there should be some way of establishing its permanency. We all know that the work accomplished by our society is just as much, if not more, due to the efforts of the secretary as it is to the president or the executive board, as the man holding this office acts as a helmsman and should be fully qualified to handle these affairs, and his mind should be on our work at all times. It seems to me that if this were the case the long dormant period that our society passes through from the date of one Convention to the date of another will become a period of activity and promotion. To be a successful Society we must always be active. I do not wish my remarks to be construed as in any manner criticizing our present secretary. He has discharged the duties of his office with the greatest efficiency and fidelity. We have been very fortunate to have had the services of so able a man as the present incumbent, Mr. John Young. I simply believe that it would be to the interest of all of us that this official, whoever, he may be, should be in a position to devote his undivided attention to the society.

Mothers' Day.

At the last executive meeting of our society it was decided that a collection be made from our members from different parts of the country. The moneys obtained were to be used by Miss Jarvis for the furtherance of her good work—the promotion of Mother's Day. This act, I believe, was a good one, for Mother's Day has become universally recognized throughout the country, and it is up to the florists to continue to advertise and promote the work that has been so well begun. However, while I myself approved such contributions to Miss Jarvis, I do not believe that such a method of securing funds for this work is effective or business-like. As soon as the fund so accrued is complete the work will naturally discontinue and we, as a Society, are here to perpetuate Mother's Day. I would, therefore, recommend

that the Society of American Florists appoint a permanent committee whose duty it will be to constantly stimulate interest in Mother's Day, and I would suggest that this committee look into the matter of securing a permanent fund to promote this work. As regards a suitable flower, emblematic of Mother's Day, will say that considerable discussion was given to this matter at the Convention in San Francisco. It was the consensus of opinion that the Society of American Florists should advocate the use of the white flower for the mother who has passed away, and flowers of any color for the mother living.

Our Late Treasurer.

Before closing I wish to say a word of praise for the dear brother whom we have been unfortunate enough to lose in the last year. On Thursday, June 15 our beloved treasurer, William F. Kasting, was taken from us. Our Society lost one of its most ardent champions and we all lost a very dear friend. It is not necessary for me to review all the good work that Mr. Kasting performed as his work was made known to all of us. Although he had many duties to perform he never begrudged the Society of American Florists his time or his services. Earnest, conscientious, far sighted, outspoken as an opponent, a character with a strong sense of the courage of his convictions, loyal as a friend and generous, Mr. Kasting's memory will always remain dear to every member of our Society.

Conclusion.

In conclusion, as president of this society, I want to thank the various committees who have worked with me during the year in carrying out their duties, and I want to thank every individual member who has shown an interest in our work, and who has given his support to our institution. There is no more charming art or occupation than that of horticulture, there is no vocation more conducive to human welfare than our own. Let us, therefore, unite our efforts toward making the society of American Florists a greater and more glorious institution.

Ladies and gentlemen I thank you for your kind attention and hope it will not be many years before we again enjoy the unbounded hospitality of the South.

The minutes of the Executive Board, report of Secretary, report of Treasurer, Washington representative and chairmen of committees then followed and the reports of State vice-presidents were ordered to be printed. We publish in this paper such of the above-mentioned reports as our space will permit and the balance will appear in next week's issue of HORTICULTURE.

REPORT OF SECRETARY JOHN YOUNG.

Mr. President and Members:

It is pleasing to be able to report to you that in point of membership our Society is stronger than a year ago. This condition should incite gratification, the more because our Convention of last year was held in a city remotely West, and our gathering this year takes place in a city almost equally remote to the South. Our Convention last year was the means of our secur-

ing a large and valuable addition to our membership, our rolls at the close of 1915 showing an increase in the State of California alone of 112 members in good standing. There is every reason to believe that the Convention of this year will result also in a substantial influx of members.

The following have sent in one or more names for membership from January 1st to July 1st, 1916:

Secretary's office, 61; W. J. Keimel, Director, 10; R. C. Kerr, Vice-President, 10; Florists' Telegraph Delivery, 14; C. L. Baum, Director, 7; Frank Steinbach, State Vice-President, 6; J. J. Hess, State Vice-President, 3; J. H. Pepper, State Vice-President, 3; Lon Foster, State Vice-President, 2; H. C. Neubrand, State Vice-President, 2; American Dahlia Society, 2; W. R. Nicholson, State Vice-President, 1; George Schulz, State Vice-President, 1; J. R. Von Boehove, 1; J. A. Peterson, 1; A. A. Niessen, 1; M. Mills, 1; Charles Plumb, 1; George Hildenbrand, 1; Florists' Hall Association, 1; Robert Shock, 1.

Our Conventions.

Our Conventions continue to hold the interest of the trade at large, and



JOHN YOUNG

Secretary Society of American Florists

friendly competition for the honor of taking care of a convention is still keen, as may be judged from the fact that there are likely to be several invitations for the 1917 Convention.

There is noticeable, however, very generally throughout our ranks a desire to eliminate much of the entertainment which has of recent years characterized our Conventions. Our membership is now so large that the attendance at some of our gatherings is much too great to allow of the extension of the hospitality which many cities would consider as befitting the occasion, and the expense and work incident thereto is necessarily such as to deter many cities from attempting to assume the role of "host." Our hosts in the South have recognized this sentiment and have established a precedent which is worthy of continual observance, by cutting out all extravagant entertainment and arranging a simple yet most enjoyable series of trips and functions which shall not in any way tend to diminish the attendance at our business sessions, or through expense create a burden the

carrying of which might prove embarrassing in many ways.

Proposed Changes in By-Laws.

At the present Convention the Society is to act upon several changes in our By-Laws affecting the policy hitherto followed in the conduct of our affairs. These changes have been thoroughly considered by our Executive Board and endorsed by that body as tending to the better and more equitable conduct of our work.

It will be noticed that through the affiliation plan now incorporated in our By-Laws our Executive Board is greatly increased in size, lending greater strength to its deliberations and work. It should be the object of many more clubs and societies to so increase their membership in this Society as to enable them to obtain seats upon our Board, and thus extend the usefulness of our organization and increase the value of its work along horticultural lines.

The establishment of the Committees on Convention Garden, proposed Bureau of Collections and Credits, Publicity, and American Products may naturally be expected to result in action which should prove highly conducive to the general welfare of the trade. State Vice-Presidents, by explaining the work expected of these committees, should be able to induce many florists not at present conversant with our work to join our Society. In this connection I would invite State Vice-Presidents to more closely cooperate with the secretary's office in the work of extending our membership. While the secretary during this year has sent out numerous appeals to florists in the different States, necessitating considerable expense and much labor, the response has not been as great as expected. The influence of our State representatives should be highly effective in this work, especially when exercised in a personal way, and any assistance the secretary is able to give in furthering it is at all times available. Although through the growth of the Society and the extension of its plans the work of the secretary's office has been greatly increased, requests from other officers for assistance in their work will have immediate and cheerful attention.

Mothers' Day.

Considerable interest has been shown by our members in the work of the International Mothers' Day Association, which is headed by Miss Anna Jarvis, the originator of Mothers' Day, and, as will be seen by the published list, a substantial fund has been raised for the use of Miss Jarvis in the prosecution of her work. It is to be regretted that the movement to raise a fund had inception with more than one organization, but it may be that the organizations acting as sponsors for the fund may another year arrange matters so that the work of all bodies may be in harmony.

Trade Exhibition.

While our Trade Exhibition this year is most commendable, it has suffered somewhat in its extent owing to distance from Eastern markets, with resultant high transportation charges. The great European war, too, is still responsible for the diminishment of exhibits of the novelties of foreign man-

ufacture which for many years have helped our displays.

National Flower Show.

Our National Flower Show, at Philadelphia last March, proved to be a huge success. Chairman George Asmus, in the report which he will make to the Convention, will deal with the work incidental to the preparations for the Show and the results accomplished. The Society is to be congratulated upon having for the fourth time successfully organized and carried out an exposition showing the advance of horticulture in America, an exposition eclipsing all predecessors.

Necrology.

We have lost through death:

Edwin Lonsdale (died), Sept. 1, 1915; W. Atlee Burpee (died), Nov. 26, 1915; Wm. Murphy, Sept. 27, 1915; Frederick W. Bruenig, Feb. 25, 1915; Albert McCullough (pioneer), Jan. 13, 1916; Robert Haentze (died), May 3, 1916; Max Rudolph, Feb. 22, 1916; Conrad Bergestermann, Feb. 20, 1916; William Young, Nov. 11, 1916; Jos. H. Cunningham, March 4, 1916; August Krueger (died), March 3, 1916; Wm. F. Kasting (died), June 15, 1916; Walter P. Stokes (died), July 1, 1916; Wm. Tricker, July 11, 1916; John W. Poehlmann, July 14, 1916.

It is with profound regret that in this list I have to chronicle the death of three more than ordinarily prominent members of our trade: Edwin Lonsdale, W. Atlee Burpee and William F. Kasting.

Mr. Lonsdale was a past president of our Society, and for one year served as its secretary. He was a pioneer member, and keenly interested in our organization. His services were at all times available in any work of the Society in which his knowledge and skill were of use, and he gave them unstintingly, officially or otherwise. His willingness to help a fellow member whenever possible to solve horticultural problems was heartily appreciated, and he will be greatly missed by many of us who have sought his counsel.

Mr. Burpee was a life member, his membership dating from 1886, the second year of the Society's existence. He took a great interest in the Society's affairs, and gave evidence of his interest by his earnest support of everything tending to advance our work. He was one of the most widely known members of our organization, and his delightful personality endeared him to all who came in contact with him.

In the death of Mr. Kasting, our late highly esteemed treasurer, our Society sustains a great loss. His sudden demise on June 15 came as a shock to us all. Few there are in the Society who did not know him, and expressions of sorrow at the time he was called away were general. His interest in the affairs of our Society was most intense in character, and his counsel was sought in all our plans and projects. He was a life member, and served as president in 1906. His efficient services as our treasurer for several years have played an important part in our advancement, and his business sagacity was ever a protection to us against unwise investment. We shall miss him for his companionship and his business acumen, both of which we could ill afford to lose.

Plant Registration.

The following plants have been registered since the last Convention:

No. 629—Dec. 4, 1915. *Canna Lafayette*, by Conard & Jones Co., West Grove, Pa.

No. 630—Dec. 4, 1915. *Canada Windmar*, by Conard & Jones Co., West Grove, Pa.

No. 631—Jan. 1, 1916. *Cattleya Percivaliana Roeblingiana*, by Lager & Hurrell, Summit, N. J.

No. 632—Jan. 15, 1916. *Cattleya Percivaliana Aurora*, by Lager & Hurrell, Summit, N. J.

No. 633—Jan. 15, 1916. *Cattleya Percivaliana spectabile*, by Lager & Hurrell, Summit, N. J.

No. 634—Jan. 15, 1916. *Cattleya Percivaliana resplendens*, by Lager & Hurrell, Summit, N. J.

No. 635—Jan. 15, 1916. *Cattleya Percivaliana Stanley Ranger*, by Lager & Hurrell, Summit, N. J.

No. 636—Jan. 15, 1916. *Cattleya Percivaliana superba*, by Lager & Hurrell, Summit, N. J.

No. 637—Jan. 15, 1916. *Cattleya Percivaliana grandiflora*, by Lager & Hurrell, Summit, N. J.

No. 638—Jan. 15, 1916. *Cattleya Percivaliana gigantea*, by Lager & Hurrell, Summit, N. J.



JOHN J. HESS

Treasurer, Society of American Florists

No. 639—Jan. 15, 1916. *Cattleya Percivaliana expansa*, by Lager & Hurrell, Summit, N. J.

No. 640—Jan. 15, 1916. *Cattleya Percivaliana atropurpurea*, by Lager & Hurrell, Summit, N. J.

No. 641—Jan. 15, 1916. *Cattleya Percivaliana oreol*, by Lager & Hurrell, Summit, N. J.

No. 642—March 11, 1916. *Rose Bedford Belle*, by Bedford Flower Co., Bedford Hills, N. Y.

No. 643—May 27, 1916. *Freesia splendens*, by Rudolph Fischer, San Gabriel, Cal.

No. 644—July 8, 1916. *Salvia Elizabeth Dunbar*, by John Dunbar, Rochester, N. Y.

Medals.

Silver medal awarded Bassett & Washburn, for Carnation Belle Washburn, Jan. 26, 1916.

Bronze medal awarded Charles Weber, for Carnation Laura Weber, Jan. 26, 1916.

Mothers' Day Fund.

The list of subscribers to the Mothers' Day or Miss Anna Jarvis fund numbers 100 and the amount subscribed totals \$634.

SECRETARY'S FINANCIAL STATEMENT.

January 1 to July 1, 1916.

Receipts.

Dues, 1915—2 at \$3.00.....	\$ 6.00
Dues, 1915—14 at 3.00.....	42.00
Dues, 1915—37 at 3.00.....	111.00
Dues, 1916—789 at 3.00.....	2,367.00
Dues, 1917—8 at 3.00.....	24.00
Dues, 1918—1 at 3.00.....	3.00
Life members—160 at \$5.00.....	800.00
Life members—37 at \$25.00.....	925.00
Collection included with check.....	.10
Int. Co., Tri State Loan & Trust Co.....	125.00
Interest, etc., Tri-State Loan & Trust Co.....	65.97

\$4,457.07

Remitted to Wm. F. Kasting, Treasurer:

General Fund.....\$3,043.10
Permanent Fund.....1,090.97
Cash on hand.....323.00

\$4,457.07

TREASURER'S REPORT.

Receipts and disbursements for the year 1915 and balances of the several funds are shown in detail on the late treasurer's report to the Executive Board at its annual meeting last spring, the following being a summary of that report:

Permanent Fund.....\$19,817.88
General Fund.....11,615.74
National Flower Show Fund.....1,654.34

\$33,117.96

The Treasurer's Report up to July 5, 1916, shows balances as follows:

Permanent Fund.....\$21,150.80
General Fund.....21,645.81
National Flower Show Fund.....6,104.13

Total Amount Invested.....\$49,200.74

REPORT OF THE WASHINGTON REPRESENTATIVE, WM. F. GUDE

The last year has been a busy one for the Washington representative. While there are no specific duties to be performed by that officer, yet there are daily calls to answer questions, both locally and by mail on all manner of propositions, and also to contribute such information as he can to all members of the S. A. F. and O. H. seeking the same. He is particularly called on to assist the various committees. There has been much legislation under discussion in Congress during the past year, affecting our industry, such as the unfair competition or anti-dumping law, mail censorship, freight embargo, a bill to enlarge the Botanic Gardens at Washington, D. C., and also a bill making the mountain laurel the national flower of the United States. Other matters also have been brought to my attention, all of which have been dealt with through the proper committees, and will be reported on later at this session.

The rose gardens at the Arlington Experimental Farm are progressing nicely. While they have not advanced as rapidly as we had hoped, yet they promise to be in fine shape in another year or two. We have to date 687 varieties of roses in this rose test garden, including many from foreign countries, Germany, France and Ireland, and a consignment in the latter part of July from Australia. This is as it should be, and we hope our friends and fellow-florists from all parts of the world will continue to send roses for this garden. Again, we ask that anyone having new stock to be tested or any varieties of roses that are not already planted in the test garden at Wash-

ington, D. C., contribute such plants to the Department of Agriculture which will have them properly placed and tested. This particular garden is for the benefit of all the members of this society, and in due time will prove of untold value to all concerned. Your committee also urges that wherever practical, names for all plants and particularly roses, be confined to two words.

It is pleasing to note that at the National Capitol, the parks and school grounds are being more and more embellished with artistic planting, beautiful flowers and shrubbery, all of which tend to create a love for the beautiful, not only for the residents of Washington, but to the thousands of visitors who come to the National Capitol annually from every section.

A notable step in the right direction was taken on May 31st of this year by the introduction in the Senate by Mr. Gallinger of a bill to increase the area of the United States Botanical Gardens. The bill provides for adding some twenty acres of ground to the present site of the Botanic Gardens. After thorough consideration by men qualified to know, this would seem to be the proper place for the Botanic Gardens. To remove it five or six miles from the present location where it would be inaccessible to the many thousands who visit Washington each year, would be most unwise, yet such a move has been advocated. We hope the bill will pass at this session. At any rate, it would be in order for this body to stamp its approval upon such course, after you have heard the argument by Mr. Gallinger on the bill which is herewith appended, and which I will read.

Business, in all lines and branches in the National Capitol during the past year has been generally good, and the reports from all sections of the country indicate that business has improved wonderfully, and that brighter days are in store for the florists and their profession.

Committee on Legislation.

Wm. F. Gude, Chairman.

Many matters have been brought to our attention affecting the different branches of our profession. Early in the year, the matter of postage on catalogues and circulars was taken up on the request of several of the large mail-order seed houses. The request made was not for a reduction in postage, but simply for permission to mail circulars and catalogues at the pound rate (irrespective of zone) at the same rate that now pertains to the mailing of catalogues. The bill was introduced in the United States Senate to bring relief to the members requesting this change, but after conferring with the powers that be, it was found, to have this permission granted might materially affect other lines of business, as well as our own, adversely, and we, therefore, decided not to press the matter.

Mail Censorship.

During the spring months a serious condition menaced the interests of importing florists by reason of the British censorship of the mails. The consular invoices and bills of lading were removed by the censors from the ships bringing the goods, and without

the documents these perishable shipments could not be released or removed from the docks. As cables were suppressed and no relief from this intolerable condition was in sight, your committee interviewed the State Department officials, also the British Embassy, with the results that arrangements were made whereby such important documents would be in future placed in a separate mail bag and would not be removed by the British censors with ordinary mail.

Freight Embargo.

As a result of the withholding of shipping documents by the censors, large shipments of perishable freight accumulated on the docks at the ports of entry—causing a tremendous freight congestion. In the effort to relieve this blockade, the railroads embargoed all outgoing and incoming freight from the terminals, which made it impossible to forward freight after it was released by the receipt of the delayed shipping documents. In this crisis, your committee interviewed railroad officials, and as a result of its action the railroads were ordered to lift the



WILLIAM F. GUDE

Washington Representative, Society of American Florists.

blockade as applied to shipments of Holland and Belgian plants which were then arriving in large volume.

Belgian Shipments.

Your committee is able to report that in most instances permits have been given by the British and German governments to Belgian shippers, and that unless some unforeseen difficulty develops, the fall shipment of azaleas, etc., will arrive from Belgium on schedule time from Rotterdam.

National Flower.

To officially recognize the mountain laurel as the national floral emblem for the United States of America, a joint resolution was introduced in the House of Representatives, June 1st, 1916. This resolution, if enacted into law, would make the mountain laurel the national flower. We immediately requested the introducer of the resolution not to push the bill until this or-

ganization could pass upon it. We were assured that every opportunity would be afforded this organization to file its recommendation in the matter. We also asked the horticultural press to give this matter wide publicity, and to request suggestions for or against the resolution. In every instance, except one, the replies were in favor of the mountain laurel as the national flower. We might further state that as far back as 1881, the mountain laurel was advanced as a national flower, but no official action has been taken. We, therefore, ask for an endorsement of the joint resolutions above referred to, and that your committee be instructed to cooperate with our legislators at Washington along said lines.

We also ask the endorsement of this Society of Senate Bill No. 6227 to increase the area of the Botanical Gardens in the city of Washington. The bill on file provides for the taking in of East Seaton Park and West Seaton Park, bounded by 3rd and 6th streets, and Maine and Missouri avenues. If this bill becomes a law, we will in time have a Botanical Garden worthy of the National Capitol of the United States.

Unfair Competition or Anti-Dumping Law.

There is now before Congress a so-called unfair-competition or anti-dumping law to prohibit the sale in the United States of foreign goods at prices substantially below the prices prevailing in the country of origin. H. R. 16763—Pages 88 and 89.

In reference to the above matter, the enactment of this law would materially benefit the legitimate florist and dealer who as a rule, buys his goods at a fair market price and expects to pay for them, in as much as the bill before Congress prohibits the dumping on American markets of goods to be sold at public auction, particularly surplus bulbs and nursery stock which is annually offered in the United States. Your committee has therefore done what they could in personal interviews and have sent copies of the following letter to the members of the Finance Committee having the matter in charge.

Washington, D. C.,
July 29th, 1916.

Hon. F. M. Simmons, Chairman,
Finance Committee, U. S. Senate,
Washington, D. C.

Gentlemen:

As national representative of the Society of American Florists and Ornamental Horticulturists, I wish to endorse Title VII—"Unfair Competition," contained in the so-called "General Revenue Bill," now under consideration by your Committee, and to urge that Title VII be favorably recommended to and adopted by the Senate in its present form.

In this provision we see protection from unfair competition, of a type not generally known—where foreign producers of the various kinds of nursery stock (bulbs in particular) sell to growers in the United States on individual orders at ruling market prices, only to later "dump" into the auction houses the same class of merchandise at much lower prices. Then there arises in respect to these a competition, unfair and detrimental to our interests.

Respectfully,

WILLIAM F. GUDE,
Chairman Tariff and Legislation Committee, S. A. F. and O. H.

Committee on Wm. R. Smith Memorial
Wm. F. Gude, Chairman.

Your committee has been rather inactive the past year on account of matters pending before the National

Government on measures now under consideration, which might materially affect the form that the Memorial to the late Wm. R. Smith should take. Your committee has therefore deemed it best to go slow with the matter and ask to be continued.

We have in bank in the Munsey Trust Company, Washington, D. C., to the credit of the Wm. R. Smith Memorial fund.....\$1,778.44
Pledges, outstanding..... 625.00

REPORT OF THE SCHOOL GARDEN COMMITTEE.

By Benj. Hammond, Chairman.

The first suggestion for the American Florists to interest themselves in School Gardening was made by Mr. Robert Farquhar of Boston, at the S. A. F. convention in Washington, D. C., in August, 1892. The practical value of this work has become recognized the country over because it is the means of inculcating into the habits of youth industrial application of mind and bodily vigor, with the result of home benefit.



BENJAMIN HAMMOND

Chairman School Garden Committee.

At the National Educational Association Convention held in New York City in July last, special sessions were held by the School Garden Association of America devoted to the reports from school workers in this line. The United States Commissioner of Education, Mr. Claxton, was present, and representatives from Quebec and Ontario and from the chief centers of population in the United States. On one of the programs allusion was made to the suggestive work of the Society of American Florists and Ornamental Horticulturists. Your committee the past year has carried out the plan of sending as usual a nicely illustrated circular letter to each of the Departments of Education in the States and Territories, and to the school authorities of cities and towns wherever there is a member of the Society of American Florists located.

There is this much certain, an interest in this work locally is good business for flower and seed trade. If the idea among children is encouraged it will grow until the United States will become the nation of pretty homes.

One thing none of us should forget, and that is the value of initiative, for it is the characteristic that laid the foundation of Americanism. The florist in his home town, can with spare material set an example of petty home surroundings that no other tradesman can so well do, and these examples point the way and create a demand for flowers, seeds and shrubs. The many letters which have come to hand from these efforts relative to home gardening for children prove beyond question the general interest this work has, and it carries with it the truth—"On Earth Peace and Good Will Toward Men."

Messrs W. F. Gude, E. G. Hill, F. X. Stuppy, J. A. Peterson and George Asmus, were appointed a committee on the recommendations in the President's address.

All the proposed amendments to the Constitution and By-Laws of the Society were adopted without opposition or debate.

TUESDAY EVENING SESSION.

The evening session of Tuesday, August 15, was held at the Rice Hotel. Balloting for the meeting place for 1917 resulted in the selection of New York City in response to an impassioned invitation in silver-tongue key by John Young on behalf of the New York Florists' Club, Horticultural Society of New York and the trade and profession in general of the Metropolis. For the following year, in accordance with the provision of the new by-laws St. Louis was chosen, with the probability that the Convention will be held jointly with the National Flower Show in that city, agreeably to the sanction of the new by-laws.

THE PRESIDENT'S RECEPTION.

The President's reception was a brilliant and very enjoyable affair. The big man from San Francisco was simply resplendent and the only somewhat less portly Secretary from New York was a star of undimmed radiance. Without further individualizing we will say that the "receiving row" was a galaxy of the first magnitude. John Young paid a high compliment to Frederic R. Newbold of New York for his brilliant achievement in securing six acres in the Bronx Park for the purpose of a Convention Garden for 1916.

WEDNESDAY MORNING.

Considerable routine work was put through on Wednesday morning. Telegrams were read from the Pacific Coast Horticultural Society, Ex-President Welch and the St. Louis Florist Club, the latter expressing appreciation of the selection of their city for the 1918 meeting and promising hospitality in large chunks. A. Miller, J. A. Newsham, W. J. Baker, Jos. A. Manda and J. J. Hess were appointed judges for the Convention Garden; W. F. Gude, Jos. Heacock, F. X. Stuppy, P. A. Chopin and C. L. Baum for the trade exhibits. A vote of thanks was extended to George Asmus for his efficient work as chairman of the Flow-

er Shoe Committee and the question of compensation for that position was referred to the Executive Board. The report of the committee on President's address was deferred until Thursday.

Officers for 1917 were nominated as follows: For President, Robert C. Kerr of Houston, Texas; Vice-President, A. L. Miller, Jamaica, L. I., N. Y.; Secretary, John Young, New York; Treasurer, J. J. Hess, Omaha, Neb.; Directors, Frank X. Stuppy, St. Joseph, Mo.; W. W. Coles, Kokomo, Ind.; George W. Hess, Washington, D. C. The report of the Botanist of the society, John Dunbar, Rochester, N. Y., was read and then adjournment until Thursday morning was carried. During the afternoon an automobile ride was enjoyed by the visitors and in the evening the formal opening of the Convention Garden was in order, followed by a moving picture show at the Queen Theatre and a band concert at Sam Houston Park.



A. L. MILLER

Vice President elect, Society of American Florists.

We have in type, crowded out of this issue for lack of room, the Report of the National Flower Show Committee by Chairman George Asmus; Report of Publicity Committee by Chairman Irwin Bertermann; and a valuable paper on "Some Important New or Little Known Trees and Shrubs by John Dunbar, Botanist to the Society. These will appear in our issue of next week.

TRADE EXHIBITION.

Exhibitors in the Trade Section were the following: H. Bayersdorfer & Co., Philadelphia, florists' supplies, domestic and imported baskets, preserved flowers and foliage, etc., a very handsome outfit; Advance Company, Richmond, Ind., ventilating apparatus and greenhouse fittings; Pochmann Bros. Co., Chicago, florists store and greenhouse supplies; Kroeschell Bros. Co., Chicago, heating apparatus; Burlington Willow Ware Shops; J. A. Evans Co., Richmond, Ind., Challenge Ven-

tilators; J. A. Peterson & Sons, Cincinnati; M. Rice Co., Phila.; H. L. Doescher, New Orleans; A. L. Randall Co., Chicago; Wertheimer Bros., New York; Gullett & Sons, Lincoln, Ill.; Cottage Gardens Nursery Co., Eureka, Cal.; American Bulb Co., Chicago; C. E. Falls; Cohen & Hiller.

FLORISTS' HAIL ASSOCIATION OF AMERICA

The meeting of the Hail Association took place on Wednesday, August 16. J. J. Hess of Omaha and Anders Rasmussen of New Albany, Ind., were elected directors. The amendment to the constitution as to extra hazardous risks was adopted. Officers were not elected, there not being a sufficient number of directors present.

Summary of Secretary's Report for Year Ending Aug. 1, 1916.

The insurance on glass, effective August 1, 1916, in the Florists' Hail Association, totals an insurance upon 43,101,590 sq. ft. of glass. The number of members at date of closing this report is 1,658. The total receipts for the year ending August 1, 1916, and including last year's balance, as per treasurer's report, are \$73,780.37. The losses paid from August 1, 1915, to August 1, 1916, amount to \$55,327.74.

The total expenditures, as per treasurer's report, for the year ending August 1, 1916 are \$64,572.52.

The cash balance on hand is \$9,207.85, of which \$743.04 belongs to the reserve fund.

The reserve fund now amounts to \$38,743.04, of which \$38,000 is invested in first-class municipal bonds, and \$743.04 cash in hands of the treasurer.

The amount of interest collected on bank deposits for the year is \$426.86.

The amount of interest collected on reserve fund investments for the year is \$1,912.50.

Two thousand, three hundred and eighty-five losses have been adjusted since the organization of the F. H. A., involving a total expenditure of over \$370,000.

An equivalent of 270,913 sq. ft. of single thick glass was broken by hail during the past year, for which the association paid \$13,545.65. And an equivalent of 597,530 sq. ft. of double thick glass was broken, which cost the association \$41,827.10.

The only liabilities of the association at the close of this report are three unadjusted losses, amounting to less than \$200.

The F. H. A. has paid out more money for losses during the past year than in any previous year since its organization.

It has more glass insured than at any previous time. It has taken in more new business than in any previous year of its history.

The F. H. A. is equalizing risks by charging a greater premium upon risks that have entered the hazardous class.

It has a large reserve fund, which is rapidly growing, increasing thereby its stability.

The F. H. A. stands for a square deal, and a prompt adjustment of losses; and the officials of the organization desire to extend their thanks for the many letters of commendation which they have received from the members who approve of their methods of administration.

TEXAS STATE FLORISTS' ASSOCIATION.

The third annual convention of the Texas State Florists opened in the banquet hall of the Houston City Auditorium on Monday forenoon, August 14. The meeting was called to order by President R. C. Kerr and after invocation by Dr. Peter G. Sears an address of welcome was made by J. J. Pastoriza and E. E. Stone of Dickinson responded. Then followed the president's address which was characteristically enthusiastic, the reports of secretary-treasurer and various committees. Reports from the various city florists' clubs were made by Louis Oesch for Dallas; W. J. Baker for Fort Worth; Mrs. G. Jung for San Antonio; Chas. Alf for Austin; C. L. Brock for Houston. San Antonio was chosen for the State Convention of 1917 and Dallas for the 1916 flower show.

Mr. Kerr complimented the Texas florists on their great progress in the past two years. He urged the need of more large flower growing establishments in the state and hoped that Texas would soon grow every flower needed. State flower show, publicity campaign, credit bureau, State experimental greenhouses were all advocated and an eloquent appeal was made for whole-souled support of the S. A. F., and especially the F. T. D. section. In conclusion he said, I ask, regardless of the duties and responsibilities that fall on you, do not fail to progress. Keep moving with those about you or you will find yourself isolated and alone. Keep yourself on a mental parity with your co-workers and friends. This will make you a welcome companion.

Progress—keep moving—be modern. The pathway of life is longest and roughest to those who lag behind the procession. Life is worth living and it is worth living right up to the minute.

Officers were elected as follows: President, T. J. Wolfe, Waco; Vice-President, F. C. Suchy, San Antonio; Secretary-Treasurer, W. J. Baker; Directors, Messrs. Forrest, Stone, Hannah, Koehler, McAdams and Beck. C. L. Brock was chosen press representative and Mr. Hensel educational director.

Addresses were made by S. A. F. visitors already on the ground including President D. MacRorie, San Francisco, W. F. Gude, Washington, E. G. Hill, Richmond, Ind., George W. Hess, Washington and J. J. Hess, Omaha.

Papers were read by W. J. Baker on "Better Freight Rates for Texas Florists," Henry Greve, Dallas, on "The Importance of Membership in the S. A. F. and O. H., Prof. E. J. Kyle on "Progress Towards Securing an Experimental Range of Glass, and A. F. Koehler on "The Difficulties of Retailers with Wholesalers on Damaged Flower Shipments."

The evening session of the convention was held at a banquet on the Rice Hotel Roof Garden.

Papers were read as follows:

"The Need of More Wholesale Glass in Texas."—H. O. Hannah, Sherman; "What the Ladies are Doing for the Florists' World"—Mrs. Annie Wolfe Bregance, Waco; "The Outlook for Texas Florists for the Coming Year, with Some Suggestions on What to Expect"—Otto Lang, Dallas.

Addresses were made by visitors as follows: W. F. Gude, E. G. Hill, Mrs. Darbee, P. J. Foley and J. S. Kerr. The committee on resolutions reported, thanking the retiring officers, railroads, exhibitors, press. The president was authorized to appoint committees to carry out his recommendations, also a committee to co-operate with the American Association of Nurserymen and Society of American Florists to regulate the inspection of state and interstate shipments of nursery and florists' stock, also for the improvement of Texas state laws on the same subject.

DURING RECESS.

Westchester and Fairfield Horticultural Society.

The Sixth Annual Outing and Field Day of this Society was held Aug. 8th at Rye Beach Inn in conjunction with the members of the Tarrytown Horticultural Society. It was a decided and pleasing innovation and enabled many old friends to meet. Over 200 people sat down to the shore dinner. The "sports" programme was somewhat curtailed owing to a heavy thunder storm, however the honors were divided by the members in most cases, with the Fairfield contingent in the lead; the game of quoits went to the Tarrytown "boys." The athletic contests for ladies only were both exciting and picturesque.

P. W. POPP.

Boston Market Gardeners.

The Boston Market Gardeners' Association, 150 strong, left worries over the high cost of living and this year's crops at home last Saturday and took a day off at Pemberton. James P. Esty's selected baseball nine lined up against E. J. Purcell's choicest and trimmed them, 9 to 7. Pemberton Inn clams and lobsters were mutilated beyond repair at 1 o'clock and in the afternoon sports of various kinds were run off, including a potato race.

NEW CORPORATIONS.

Des Moines, Ia.—Pratt Greenhouse Co., capital stock, \$25,000. Incorporators, L. W. and B. E. Pratt.

Wenatchee, Wash.—Trumble Consulting Horticultural Co., capital stock, \$5,000. Incorporators, R. Edwards and M. E. Trumble.

Tampa, Fla.—Allen & Reils Seed Company, capital stock, \$10,000. Incorporators, D. C. Gillett, H. F. Reils and A. L. Allen.

Rock Island, Ill.—The L. Stapp Co., florists and growers, capital stock, \$20,000. Incorporators, L. Stapp, Minnie Stapp and E. H. Stapp.

Chicago, Ill.—American Bulb Co., 172 N. Wabash avenue, dealers in bulbs and seeds, capital stock, \$100,000. Incorporators, A. Miller, S. Seligman, Robert Newcomb, Wm. Newcorn, Albert Koehler and Benjamin Miller.

The party from New York en route to the Houston Convention were handsomely entertained by the floricultural maternity at New Orleans.

AMERICAN GLADIOLUS SOCIETY

The annual meeting of the American Gladiolus Society was held in Boston, Mass., on August 12, in the trustees' room of the Mass. Horticultural Society, with an attendance of about forty.

President Fairbanks made an interesting address, emphasizing especially the need of an overhauling of the nomenclature and classification of varieties, and the necessity of a higher tariff on imported corms in justice to the American growers.

Secretary Youell read the minutes and reported on the year's activities, incidentally chiding the members for lack of interest and effort to increase the membership list. He advocated printing an annual report. Receipts for the year were \$812.50, and balance in treasurer's hands is \$237 larger than last year.

Montague Chamberlain made a report to the effect that the new by-laws had not come up to expectations and the further revision would be desirable, especially in the matter of prize schedule classifications. This brought on a lively debate, participated in by President Fairbanks, Secretary Youell, Arthur Cowee, E. M. Smith, Montague Chamberlain, L. Merton Gage, Madison Cooper and others, as to the proper status of the amateur, so-called, in the exhibitions, the question being finally referred to a committee to define the lines between big amateurs and little amateurs and professionals. A committee to report on the proposition of a quarterly bulletin was also constituted. Designs for a society medal were shown by the president. Last year at Newport the officers were elected for two years but Mr. Fairbanks asked to be relieved now so that a more active successor might fill the president's chair. The members would not entertain the suggestion and a motion to decline the resignation of Mr. Fairbanks was unanimously carried with vociferous acclaim. So, President Fairbanks it is for another year.

The meeting was characterized by enthusiasm and a very optimistic atmosphere which promises well for the American Gladiolus Society.

THE EXHIBITION.

The seventh annual exhibition of the American Gladiolus Society opened on Friday, Aug. 11, in conjunction with the annual exhibition of the Massachusetts Horticultural Society at Horticultural Hall, Boston. It was decidedly the largest and best exhibition of gladioli ever seen in Boston. Pres. Charles E. Fairbanks, with 5000 blooms in 250 named varieties from his estate in Milton, had the largest exhibit and they were arranged very impressively. Other exhibitors included T. A. Havemeyer of New York, vice-president of the American Gladiolus Society, who had a superb display of several hundred varieties; H. E. Meader, Dover, N. H., 60 varieties; L. Merton Gage of Natick, with 75 varieties; Raymond W. Swett of

Saxonville; Charles W. Brown & Son, Ashland; Thomas Cogger of Melrose, representing C. Keur & Sons of Hillegom, Holland, who showed 200 named varieties; John Lewis Childs, Inc., Flowerfield, N. Y., 225 named varieties; J. Thomann & Sons, Rochester, N. Y.; Eugene Fischer, Jamaica Plain; Ernest M. Smith, East Hartford, Conn.; S. E. Spencer, Woburn; Madison Cooper, Calcium, N. Y.; Breck-Robinson Nursery Company, Lexington, Mass.; P. Vos Mz, represented by J. Zeestraten, Stoughton, Mass.; Metzner Floral Company, Mountain View, Santa Clara Co., California.

Taken as a whole the exhibition presented a very brilliant spectacle, the picture rivalling the rainbow. The influence of the primulinus hybrids was strongly in evidence, lighting up the collections with the luminous tints of salmon and gold which are characteristic of that species. A closer scrutiny showed the great advances made in recent years in size, form and markings of the flowers. There was, unfortunately, the marked absence of legible labeling which mars the usefulness of so many exhibitions. President Fairbanks' collections were a conspicuous object lesson in neat and readable labels and special recognition of this by the judges would not have been amiss.

Among the outstanding sensations we might mention in particular Mr. Fairbanks' lavender seedling, Julia M. Fairbanks; also T. A. Havemeyer's Muriel, which took 1st in 25 spikes of "any other color" which in color tone reminded of a fine cattleya or laelia. Mme Maumet Sully, shown by Mr. Havemeyer, white with scarlet blotch, was remarkable in the number of perfect flowers, eight or nine to a spike open at once. The Childs collections sparkled with the sunrise tints of primulinus varieties.

List of Awards.

Prizes offered by the Massachusetts Horticultural Society.

Vase of twenty-five spikes, White, one variety: 1st, Charles F. Fairbanks, Boston, Mass., with Europa; 2d, Jacob Thomann & Sons, Rochester, N. Y., with Rochester White.

Twenty-five, Red: 1st, Charles F. Fairbanks with Red Emperor; 2d, Helen A. Reardon with Liebesfeur.

Twenty-five, Crimson: 1st, John Lewis Childs, Flowerfield, L. I., with Rich Red; 2d, C. W. Brown & Son, Ashland, Mass.

Twenty-five, Pink: 1st, T. A. Havemeyer with Panama; 2d, C. F. Fairbanks, Panama.

Twenty-five, Yellow: 1st, John Lewis Childs, Sulphur King; 2d, S. E. Spencer, Woburn, Mass., Schwaben.

Twenty-five, any other color: T. A. Havemeyer, Muriel; 2d, Charles F. Fairbanks, Mary French.

Twenty-five, any Lemoinei Hybrids: 1st, T. A. Havemeyer, Mme. Mounet Sully; 2d, John Lewis Childs, Baron Hulot.

Twenty-five, any Primulinus Hybrids: 1st, C. F. Fairbanks; 2d, C. W. Brown & Son.

Largest and best collection of named varieties: 1st, John Lewis Childs; 2d, C. F. Fairbanks.

Collection of fifty named varieties: 1st, T. A. Havemeyer; 2d, John Lewis Childs.

Six spikes, White, one variety: 1st, T. A. Havemeyer, Europa; 2d, Jelle Roos, Milton, Mass., Europa.

Six spikes, Red: 1st, T. A. Havemeyer, Red Emperor; 2d, John Zeestraten, Electric.

Six spikes, Crimson: 1st, John Lewis Childs, with George Paul; 2d, Jelle Roos, Milton.

Six spikes, Pink: John Zeestraten, Panama; 2d, H. E. Meader, Dover, N. H., Myrtle.

Six spikes, Yellow: 1st, E. M. Smith, East Hartford, Conn., Schwaben; 2d, C. F. Fairbanks, Schwaben.

Six spikes, any other color: 1st, T. A. Havemeyer, Loveliness; 2d, C. F. Fairbanks, Julie M. Fairbanks.

Six spikes, any Lemoinei Hybrid: 1st, H. E. Meader, Heliotrope; 2d, T. A. Havemeyer, Duval.

Six spikes, any Primulinus Hybrid: 1st, C. W. Brown & Son; 2d, John Lewis Childs, with Concolor.

Three spikes, White: 1st, Thos. Cogger, Europa; 2d, Madison Cooper, with Mrs. L. M. Gage.

Three spikes, Red: 1st, C. F. Fairbanks; 2d, E. M. Smith.

Three spikes, Crimson: 1st, E. M. Smith; 2d, Jelle Roos, with Rajah.

Three spikes, Yellow: 1st, Madison Cooper, Yellow Bird; 2d, E. M. Smith.

Three spikes, any other color: 1st, John Lewis Childs; 2d, E. M. Smith, Myrtle.

Twelve vases, twelve named varieties: 1st, Iristhorpe Farm; 2d, H. E. Meader.

Twenty-five spikes, artistically arranged: 1st, Jacob Thomann & Sons, Rochester, N. Y.; 2d, Eugene Fischer.

Gold Medal: C. F. Fairbanks, for advancement in the cultivation and exhibition of the Gladiolus.

Honorable Mention: John Lewis Childs, Gladiolus Evelyn Kirtland; C. W. Brown & Son, vase of Gladiolus Evaline.

Vote of Thanks: Blue Hill Nurseries, Gladiolus primulinus hybrids; R. & J. Farquhar & Co., evergreen decorative plants.

Gratuities to Brookland Gardens, Thomas Cogger, L. Merton Gage, C. W. Brown and Raymond W. Swett for displays of gladioli; J. K. Alexander for display of dahlias, Blue Hill Nurseries for display of hardy herbaceous flowers, Mrs. E. M. Gill for hardy flowers, T. C. Thurlow's Sons, phloxes.

Charles F. Fairbanks special prizes for Seedling Gladiolus, one spike: 1st, John Lewis Childs, Seedling No. 3; 2d, T. A. Havemeyer.

W. Atlee Burpee & Co. special for best collection 10 varieties, 6 spikes each: Jelle Roos, Milton, Mass.

G. D. Black special for twelve spikes Golden King: 1st, S. E. Spencer, Woburn, Mass.; 2d, E. M. Smith, East Hartford, Conn.

H. E. Meader special for best new yellow Primulinus Hybrid seedling: C. W. Brown, Ashland, Mass.

Fottler, Fiske, Rawson Co. special for five varieties, 3 spikes each: 1st, E. M. Smith; 2d, H. E. Meader; 3d, Charles F. Fairbanks.

A. E. Kunder special for best collection Kunder's varieties: Gold medal to C. W. Brown & Son.

Munsell & Harvey special for 6 spikes best Red, to Madison Cooper, with C. M. Clifford, dark wine.

Hitchings & Co. special for the most artistically arranged basket or hamper (all seedlings): Silver cup, to Jacob Thomann & Sons.

A. H. Austin & Co. special for best 6 spikes, Mauve: Madison Cooper. For best 6 spikes Rose Wells: John Lewis Childs.

P. Hopman & Sons special for best 25 spikes Pink Perfection: S. E. Spencer, Woburn, Mass.

T. A. Havemeyer special for 3 spikes any other color: Mrs. E. R. Pierce, Wellesley Farms, with seedling Florence, unique deep magenta with white blotch.

Certificate to Eugene N. Fischer for Lemoinei seedling Henry C. Goehl, white flushed pink, with carmine blotch.

In the smaller hall there was a fine fruit and vegetable annex, in which a creditable display of hothouse grapes were staged by Weld Gardens, gard. Duncan Finlayson. In addition to the regular prizes for vegetables and fruit the Mass. Horticultural Society gave the following gratuities:

Jennison's Floral Gardens, collection of seedling Blueberries; Hillcrest Farm, Japanese Wineberry; Jennison's Floral Gardens, 1st Earl Everbearing Strawberry; J. W. Brown & Son, collection of berries.

CLUBS AND SOCIETIES

CANADIAN HORTICULTURAL ASSOCIATION.

The 19th annual convention of the Canadian Horticultural Association opened at Berlin, Ont., Canada, Tuesday afternoon, August 8, with about 160 delegates in attendance. Mayor Hett of Berlin warmly welcomed the visitors to Berlin, and the response was delivered by E. B. Hamilton of London, Ont. President F. W. Adams, Toronto, Ont., then reviewed the progress of horticulture in the Dominion during the present year to date. The reports of the Secretary-Treasurer and the Tariff Committee then were presented by J. Luck, Montreal, P. Q., and E. I. Mepstead, Ottawa, Ont. E. J. Hayward of Montreal addressed the convention on "Commercial Ferns." On Tuesday afternoon the visitors were taken in automobiles through Berlin and the adjoining town of Waterloo. In the evening George Baldwin of Toronto gave an illustrated lecture on "Success With a Home Garden," and Harry Tattle of Toronto spoke on "Commercial Culture of Peonies and Dahlias."

The convention concluded on Thursday noon, with the election of officers and the selection of Montreal, Que., for next year's convention. The new officers are: President, James Fraser, Prescott, Ont.; first vice-president, E. J. Hayward, Montreal; second vice-president, F. Dicks, London, Ont.; secretary-treasurer, J. Luck, Montreal; executive committee, C. H. Janzen, Berlin; E. F. Collins, Toronto; F. Wise, Peterborough, Ont.; E. B. Hamilton, London; Luke Williams, Ottawa; George Douglas, Toronto; William Hunt and C. A. Smith, Berlin. Just before the convention adjourned papers were read by H. Dille-muth, Toronto, on "Problems of the Retailer," and by J. Luck, Montreal, on "Outdoor Roses." Thursday afternoon following the closing sessions of the annual meeting the delegates visited the Ontario Agricultural College in Guelph, Ont.

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

The monthly session of this society was held in Greenwich, Ct., Aug. 11th. A feature was the display of out-door flowers, arranged for effect by assistant gardeners. There were four contestants. 1st prize was awarded to James Lough; 2nd, Andrew Gale. Wm. Friend and Alex. Clarkson were highly commended. Vote of thanks was given to Thos. Ryan for "Superb" strawberries, Arthur Pederson for seedling tomatoes and beans. P. W. Popp received a certificate of merit for gladioli. A committee was appointed to draft resolutions of sympathy on the death of Thos. Robinson. The next meeting will be held Sept. 8th.

P. W. POPP.

COMING EXHIBITIONS.

August 24-25.—Lewiston, (Me.) Annual Flower Show, Gardeners Union, Lewiston City Hall.

August 3, Oyster Bay, L. I., N. Y.—Dahlia Show, Oyster Bay Horticultural Society.

August 11-12-13, Boston.—American Gladiolus Society, Horticultural Hall.

August 24, Worcester, Mass.—Gladiolus Exhibition.

Sept. 2-9, Cleveland, Ohio.—Industrial Exhibition and Fair.

Syracuse, N. Y., Sept. 11-16.—New York State Fair.

Sept. 12-13, Providence, R. I.—Rhode Island Horticultural Society, Narragansett Hotel.

Sept. 11-16, Syracuse, N. Y.—Seventy-Sixth Annual New York State Fair.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The monthly meeting of the Nassau County Horticultural Society was held in Glen Cove, N. Y., Wednesday evening, Aug. 9. The schedule of the coming dahlia show was read by Robert Jones, chairman of the committee. It contains 63 classes, covering exhibits of dahlias, roses, etc., also a class for dinner table decoration. With only one or two exceptions the classes are open and all exhibitors will be welcomed. Secretary Gibson is still receiving many offers of prizes for our chrysanthemum show and the outlook is most favorable for a very successful exhibition.

John Ingraham of Oyster Bay staged a gorgeous collection of gladioli for which he was awarded a certificate of culture. Harry Goodband won 1st prize for gladioli, and asters. John W. Everitt won 1st for tomatoes. By request Mr. Ingraham gave a talk on the Gladiolus. He told of his method of culture and varieties most suitable for growing conditions on Long Island.

JAMES MCCARTHY, Cor. Sec'y.

ST. LOUIS FLORIST CLUB.

The meeting of the Florist Club took place August 11th at the home of J. D. Davis in St. Louis County, on invitation of Stephen Beer, gardener for Mr. Davis. President Bourdet opened the meeting with 50 members present. All the new changes in the by-laws were carried by a full vote. The election of officers resulted as follows: President, Jules Bourdet for a third term; A. Hummert, vice-president; J. J. Windler, secretary; W. C. Smith, treasurer; Frank Windler, trustee. An invitation to attend the Growers' Picnic was extended by W. A. Rowe and the club offered a \$5 prize. A vote of thanks was extended Mr. Beer. Next meeting, Sept. 14th, on the grounds of Sanders' nursery.

The schedule of the eighty-fourth annual exhibition of the New Haven County Horticultural Society has been issued. The show will be held in Republican Hall, New Haven, Conn., on Wednesday and Thursday, Sept. 13-14, 1916. For further particulars apply to the Secretary, W. C. McIntosh, 925 Howard avenue, New Haven, Conn.

MORRIS COUNTY GARDENERS' AND FLORISTS' SOCIETY.

The Twenty-first Annual Flower Show of the Morris County Gardeners' and Florists' Society will be held on Oct. 26-27, 1916, in Assembly Hall, Madison, N. J. The same Flower Show Committee will manage the exhibition that managed our first small affair twenty-one years ago, viz: Arthur Herrington, Wm. H. Duckham and Chas. H. Totty. A special effort will be made to make this show stand out conspicuously, for, as a society, we will have just "come of age."

EDWARD REAGAN, Sec'y.

CLUB AND SOCIETY NOTES.

The Horticultural Society of New York will hold a gladiolus exhibition in the Museum Building, New York Botanical Garden, Bronx Park, New York City, in co-operation with The Garden, on August 19th and 20th, 1916. The exhibition will be open from 2 to 5 on the first day, and from 10 to 5 on the second day.

A meeting of the Board of Directors of the Horticultural Society of New York, will be held in the Museum, New York Botanical Garden, at 2.30 o'clock on Saturday. A meeting of the society will take place in the Lecture Hall, at 3.30 o'clock, followed by a public lecture at 4 o'clock, by Dr. P. A. Rydberg on "Among the Canyons and Deserts of Southeastern Utah." The lecture will be illustrated with lantern slides.

The Cleveland O., Industrial Fair and Exposition opens at Edgewater Park on September 2, and will continue for one week. The Flower Show section is well provided for in a very liberal premium list with open classes and classes limited to private gardeners. Special classes for table decorations, baskets, etc., offer opportunity for artistic work with gladioli, asters and dahlias particularly. This will be the first open air fall flower show ever held in Cleveland.

The 13th annual meeting of the Alabama State Horticultural Society, which is expected to be one of the best in the history of the organization, will be held in the School Auditorium, at Brewton, Ala., August 30th and 31st. The meeting will be of great interest to all interested in any phase of horticulture. A number of excellent speakers will be present to give practical talks. Exhibits of flowers, fruits and vegetables will be shown in connection with the meeting, and premiums will be awarded for the best products. For full information address L. H. Reed, Deer Park, Ala., chairman of the Exhibit Committee.

J. C. C. PRICE, Auburn, Ala.
Secretary-Treasurer.

BUSINESS TROUBLES.

Boston, Mass.—Moses Penn, florist, 35 Hollander street, voluntary petition in bankruptcy. Liabilities, \$6,057, no assets.



Boddington's Re-selected Winter-flowering Spencers as grown by Wm. Sim, Cliftondale, Mass.

WINTER SPENCER SWEET PEAS

NEW CROP SEED READY FOR DELIVERY NOW

Pink and White		1 oz.	1/2 lb.	1 lb.
Christmas Pink Orchid. Standard bright pink, wings white.		\$3.00	\$10.00	\$35.00
Pink-and-White-Orchid		.65	2.00	7.50
Sensation. Newman & Legg's variety of the Christmas Pink Orchid.		3.00	10.00	35.00
The Czar. Standard rose, wings white mottled with		3.00	10.00	35.00

Apricot and Orange		1 oz.	1/2 lb.	1 lb.
Apricot Orchid. Mostly apricot self.		\$1.50	\$4.50	\$15.00
Orange Orchid. Standard orange, wings dark salmon.		1.50	4.50	15.00

Lavender and Blue		1/4 oz.	1/2 lb.	1 lb.
E. Burke. The best light blue.	Trade pkt. 25c, 50c, 1.00	6.00		
Mrs. John M. Barker. Lilac, with glistening dark rose, wings light blue on white ground.		1.50	4.50	15.00

White and Blush		1 oz.	1/2 lb.	1 lb.
Bridal Veil. Pure white.		\$1.00	\$3.50	\$12.00
Mrs. M. Spanolin. Double; white.		1.00	3.50	12.00
Venus. Slightly blush-pink.		1.50	4.50	15.00
White Orchid. Pure white.		.65	2.00	7.50

Pink and Light Pink		1 oz.	1/2 lb.	1 lb.
Bohemian Girl. Pink self.		\$1.50	\$4.50	\$15.00
Fordhook Pink. Rose-pink on white ground.		1.25	3.50	12.00
Morning Star. Self pink color.		3.00	10.00	35.00
Mrs. Jos. Manda. Light shell pink.		.65	2.00	7.50
Miss Florence Roland. Pink and salmon.		1.50	4.50	15.00
Mrs. A. A. Skach. Bright pink.		.65	2.00	7.50
Rose Queen. Beautiful pink.		1.50	5.00	18.00

Yarrowa		1 oz.	1/2 lb.	1 lb.
Bright rose pink with light wings.				
Australian introducers re-selected stock.		\$2.00	\$9.00	\$24.00
California grown seed.		.65	2.25	8.00

Red and Rose		1 oz.	1/2 lb.	1 lb.
Belgian Hero. A beautiful rose.		\$3.00	\$10.00	\$35.00
Fordhook Rose. Rosy carmine.		1.50	4.00	15.00
Orchid Beauty. Rose-pink, with orange.		.75	2.50	10.00
Red Orchid. Bright cherry-red.		.75	2.50	10.00
Sensation Scarlet. Bright scarlet.		3.00	10.00	35.00

Mixed Winter-Flowering Spencers.	\$0.65	\$2.00	\$7.50
----------------------------------	--------	--------	--------

Florists' Flower Seeds for Present Sowing

Pansies, Giant Varieties	Tr. pkt.	1/4 oz.	Oz.
Boddington's "Challenge" Mixture.	\$.50	\$1.50	\$5.00
Knott's Winter-flowering Mixed. Large flowers of good substance on long stems.	.75	2.50	
Sim's Gold Medal Mixed.	.75	2.00	

Winter Stock	Tr. pkt.	1/4 oz.	Oz.
Beauty of Nice. Daybreak pink.	.25	\$1.00	
Lenox Purple. Light purple.	.25	1.00	
Princess Alice. Pure white.	.25	1.50	
Queen Alexandra. Rosy lilac.	.25	1.00	

CALCEOLARIA, Boddington's Perfection Mixed.	Tr. pkt.	1/2 Tr. pkt.	Tr. pkt.
CINERARIA, Boddington's Matchless Mixed.	1.00		.60
CINERARIA, Boddington's Stellata Mixed.	1.00		.60
MIGNONETTE, Boddington's Majesty. The finest Mignonette for Winter forcing.	Per oz., \$7.50	1.00	.60
ASPARAGUS PLUMOSUS NANUS. True greenhouse grown. 100 seeds 50c., 250 seeds \$1.00, 1000 seeds \$3.50.			
PLUMOSUS NANUS. California grown. 100 seeds 50c., 250 seeds 75c., 1000 seeds \$2.50.			

5% DISCOUNT FOR CASH WITH ORDER.

Our New Florists' Catalogue containing Selected List of Bulbs and Seasonable Flower Seeds is now ready. Mailed Free.

ARTHUR T. BODDINGTON CO., Inc., 128 Chambers St., New York City

Large Xmas Peppers

Also BIRD'S EYE PEPPERS

Exceptionally Fine 4 Inch Stock at \$8.00 per Hundred.

ALSO

ASPARAGUS PLUMOSA

4 in. pots at \$8.00 per Hundred

Extra Fine Stock for Planting Out

A. L. MILLER

JAMAICA, N. Y.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, OLEMATIS, H. P. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St., Weehawken Heights P. O. No. 1, Hoboken N. J.

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.
WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.
ROOSEVELTS—\$5 per 100, \$40 per 1000.
BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

BOBBINK & ATKINS

Nurserymen, Florists and Planters

RUTHERFORD, NEW JERSEY

FREESIA PURITY BULBS

Florists' Forcing Size, 1/2 to 3/4 inch

\$7.50 per 1000 High Grade Bulbs

ANGLIN & WALSH CO.

Williamsbridge, N. Y.

A. N. Pierson, Inc.

CROMWELL, CONN.

Bedding Plants and Roses

In Writing Advertisers
Kindly Mention
HORTICULTURE

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

Federal Seed Import Law Amended.

The Federal Seed Import Act of August 24th, 1912, was amended by the approval of the President on August 11th of the Agricultural appropriation bill, as follows:

Seeds of *vetch* and *ryegrass* are added to the list of seeds contained in the original Seed Import Law, and the following new provisions are added, "and, hereafter, when any kind or variety or mixture of the seeds subject to the provisions of said Act of August twenty-fourth, nineteen hundred and twelve, as hereby amended, shall contain less than sixty-five per centum of live, pure seed as distinguished from dead seed, chaff, dirt, other seeds, or foreign matter, such seeds or mixture thereof shall be deemed unfit for seeding purposes within the meaning of said Act approved August twenty-fourth, nineteen hundred and twelve, and the importation of such seed or mixture thereof is prohibited: Provided, however, That seed of Kentucky blue grass and seed of Canada blue grass shall not be considered unfit for seeding purposes when they contain fifty per centum or more of live pure seed."

This amendment, of so great interest to Seedsmen and the purchasers of seeds, was suddenly offered by the Senate Committee on Agriculture and Forestry to the Senate while considering the Agricultural appropriation bill. The Senate agricultural committee adopted this amendment without notice or the granting of any hearing to those interested in this important matter. There was no opportunity given to object to this amendment in the Senate except by raising the point of order against the provision as new legislation, and, of course, such proceeding was impossible. Prompt and strenuous opposition to this inconsiderate action of the Senate was made to the conferees of the Senate and House, but these eight gentlemen decided the case.

Crop Notes by Bureau of Estimates.

U. S. Dept. of Agriculture.

NEW YORK.—Considerable complaint is voiced by growers concerning the late and wet spring which affected various truck crops. While the northern and western sections of the State have been without much rain, the southern and eastern sections have been nearly flooded. Cabbage transplanting was from two to three weeks

late, but it is understood the new plants took root well and appear to be in fair condition. Onions in Orange County suffered from heavy rains the latter part of the past month. Much complaint is heard concerning the lack of available labor to cultivate the various crops. Much of the labor usually employed in the cultivation of onions and cabbages, etc., has been attracted by high wages to the industrial centers and the crops have suffered thereby.

INDIANA.—Celery has suffered in some sections a little from blight. The onion crop has improved over last month and harvesting will probably begin about August 15, 1916. In general, conditions have been good during July.

MICHIGAN.—Complaints of severe drouth have been received from correspondents in this State. The cabbage worm and onion maggot are mentioned by some correspondents.

WISCONSIN.—A severe drouth is seriously affecting all truck in Wisconsin, especially the cabbage crop. Transplantings are evidently suffering from lack of moisture and plentiful rains would help much in assisting the new plants to take root and attain maturity before frost. Transplanting was very much delayed this season.

OHIO.—Hot and dry weather is complained of during the past month. Onions have not improved during the month, owing to weather conditions and lack of labor for the necessary cultivation. Insects are complained of to some extent in the cabbage and onion sections.

Low Germination of Crimson Clover Seed.

Washington, D. C.—Samples of lots of crimson clover seed now on the market tested recently by the U. S. Department of Agriculture usually have contained about one-third of dead seed, and in many samples more than two-thirds of the seed was dead. It is important, therefore, that planters know the quality of the crimson clover seed they intend to sow.

Every lot of seed should be tested for germination, and then seeded heavily enough to insure getting a stand. If the present supply of seed of low germination is sowed without testing, and at a usual rate of seeding, poor stands and failures will follow even under favorable weather conditions.

Important Customs Ruling.

In a hearing before the Board of General Appraisers in New York last week, William Larzelere & Co., Philadelphia, lost in a contention dealing with the classification of orchids. They were taxed at 25 per cent. under the specific provision for such flowers. The importers claimed free entry under that part of the same paragraph referring to all mature mother flowering bulbs imported exclusively for propagating purposes. It appeared that the orchids

were imported for a woman who testified that she did not deal in flowers, but imported them in this case solely for purposes of cultivation. As they were for use in a private greenhouse the board decided the orchids did not come under the free list provision.

One Week's Imports.

Imports at the port of New York of horticultural material, for the week ending Aug. 14th, were recorded as follows:

Bulbs—England, \$311.
Plants—Costa Rica, \$82; Brazil, \$368; Colombia, \$3,146; Venezuela, \$320.
Red Clover Seed—France, \$16,600.
Clover Seed—England, \$3,701.
Grass Seed—England, \$6,234.
Other Seeds—France, \$259; Netherlands, \$67; England, \$915; Argentine, \$2,984; British India, \$3,687; Japan, \$3,873; Morocco, \$1,029.
Nitrate of potash—British India, \$25,832.
Nitrate of soda—Chile, \$74,867.
Other fertilizers—England, \$680; Argentine, \$2,911.

Notes.

Lake Forest, Ill.—George D. Reid has been appointed manager of the branch seed store of D. D. P. Roy, Chicago.

Chicago, Ill.—James Fisher has been appointed western representative of Carter's Tested Seeds, with headquarters at 180 North Dearborn street, Chicago.

In the report by Consul General S. Listoe to the U. S. Department of Commerce it is shown that the value of exports of bulbs and roots from Rotterdam to the United States in the year 1914 amounted to \$1,251,138; in 1915, \$1,272,968. Nursery stock in 1914 amounted to \$647,996; in 1915, \$670,068. The report states further that owing to the difficulties in exporting to the belligerent countries and the diminished demand as a result of the war, the growers were obliged to dispose of their bulbs and flower roots in the United States at lower prices than heretofore, so that the actual quantity of reports represented in the figures exceeded considerably that of 1914.

CATALOGUES RECEIVED.

Cromwell Gardens, Cromwell, Conn.—Fall Catalogue, 1916. Hardy bulbs, flowering plants, palms, garden roses, herbaceous border plants, shrubs and trees. Illustrated.

M. Grelen, Oudenbosch, Holland—Hardy Ornamental and Forest Trees, Roses, etc. Wholesale Price List. August Rolker & Sons, New York City, sole American agents.

W. Atlee Burpee & Co., Philadelphia, Pa.—Burpee's Sweet Peas. Price List of the New Winter-Flowering Spencers. Portraits of the great novelties—Fordhook Pink and White, Fordhook Rose, Fordhook Pink and Yarrowa.

Arthur T. Boddington Company, New York—Bulbs, Seeds, Plants, and Sundries; Wholesale Price List for Fall, 1916. Well compiled, well illustrated and it will be distinctly to the advantage of every florist bulb forcer to send for a copy and peruse its contents.

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes
Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of
Commerce Bldg., Boston, Mass.



LILIUM HARRISII BULBS

	Per 100	Per 1000
5 in. to 7 in.	\$5.00	\$40.00
7 in. to 9 in.	9.00	80.00
9 in. to 11 in.	22.00	

—ALSO—

FREESIA REFRACTA ALBA		
Mammoth Size	Per 100 \$1.75	Per 1000 \$12.00

For Immediate Delivery

J. M. THORBURN & CO.
53 Barclay Street
Through to 54 Park Place
NEW YORK CITY

LILY BULBS

Fall Shipment from Japan

Prices quoted F.O.B. New York, Chicago, Denver, San Francisco and London (Ont.)

Write for quotations stating quantity, variety and size required.

McHUTCHISON & CO. The Import House
95 Chambers St., New York

MICHELL'S ...SEED HOUSE

518 Market Street. PHILADELPHIA, PA.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. BOSTON

Telephone Main 55.

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

POINSETTIAS

August Shipment

True type, fine 2½ inch plants, shipped in paper pots, \$6.00 per 100, \$50.00 per 1000.

A. HENDERSON & CO.

211 N. State St. CHICAGO, ILL.

My new Price List of

WINTER-ORCHID-FLOWERING SWEET PEA SEED

Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

MIGNONETTE

IMPROVED ECLIPSE.

Superior to all others for winter blooming, exhibition, or cutting. Immense fragrant spikes 10 to 15 inches long. Greenhouse grown seed from a re-selected strain Pkt. 25c., 1/16 oz. \$1.00. Catalogue upon application.

THOMAS J. GREY CO., Seedsmen
29 So. Market St., Boston, Mass.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

NEW CROP SEEDS

PANSY SEED. Giant flowering florist mixture. American grown. (Best money can buy.) 50c. per tr. pkt., ¼ oz. \$1.50, oz. \$5.00.
PANSY SEED SPECIAL. Greenhouse mixture for forcing; long stemmed. \$1.00 per tr. pkt., ½ oz. \$1.50, ¼ oz. \$2.50; oz. \$8.00.
SWEET PEAS. Zvolanek's Orchid Flowering in all varieties. I have his agency this season.

ROMAN J. IRWIN,
Plants, Cuttings, Bulbs, Seeds.
108 West 28th Street - New York.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragons on the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.

PHILADELPHIA, PA.

LILIUM GIGANTEUM

COLD STORAGE

Extra Selected Stock. Gladiolus for forcing. Nansu, Colvillei or large flowering type. Greenhouse Fertilizers. Ask for 1916 Seed Catalogue.

Joseph Breck & Sons Corp., Seedsmen
47-54 No. Market St., BOSTON, MASS.

W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries

166 W. 23rd St., NEW YORK

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

For KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for New York. Write or Phone to

MAX SCHLING

22 West 59th Street. Adjoining Plaza Hotel

Best Florists in the States as References.
EUROPEAN ORDERS EXECUTED.
Members of the Florists' Telegraph Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, New York
Telephone 1552-1553 Columbus

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

WORCESTER, MASS.

Randall's Flower Shop

HARRY L. RANDALL, Proprietor.

Member Florists' Telegraph Delivery Association

Of Interest to Retail Florists

NEW FLOWER STORES.

Mason City, Ia.—F. J. Olson, branch store.

Oakland, Cal.—Miss May Black, 577 41st street.

Houston, Tex.—Paul M. Carroll, Texas avenue.

Fond du Lac, Wis.—S. P. Kordatos, First National Bank Bldg.

Gloversville, N. Y.—Paul Trunka, Third avenue, succeeding E. T. Denham.

San Francisco, Cal.—San Francisco Floral Co., 431 Bush street. (Wholesale.)

Chicago, Ill.—Miss May Flynn, 1530 N. Kedzie avenue, succeeding J. F. Wolniewicz.

Newark, N. J.—The Rose Shop, Howard Silcock, manager, succeeding the Colonial Flower Shop.

NEWS NOTES.

Stoneham, Mass.—Christine C. Dre-wett, of Roslindale, has purchased the Wright street greenhouses.

St. Peter, Minn.—A. J. Loegering has purchased Emil Samuelson's greenhouses and 28 acres of land adjoining for nursery purposes.

Summit, N. J.—The Colonial Flower Shop which has been successfully conducted for the past seven years by William Death has been sold to Harry O. May who has decided to branch out into the retail business.

Fall River, Mass.—Saturday, August 5, was opening day of Warburton's new flower shop in the Hotel Wilbur building, North Main street. Many friends and patrons thronged the attractive store all day. Mr. Warburton has fitted up with all modern appliances and the lighting effect is greatly enhanced by the white and gold design of finish. The display windows are finely planned for the show of plants. Souvenirs of asters and rosebuds were freely distributed to the visitors.

Little Boy Blue, come blow your horn,
Or people won't know that you ever were born;
For you'll be overlooked, say the ones who are wise,
Unless you get busy and advertise.
—Boston Post.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies Telegraph and Cable address Dardsflor

HIGH GRADE PLANTS

For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE National Capital

At your service to deliver Flowers or Designs on Order by Telegraph or otherwise. Prompt Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

J. B. KELLER SONS, FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 218.
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEWPORT, R. I.

145 Bellevue Avenue.

WE GUARANTEE SATISFACTION

MEMBER F. T. D. A.

CHICAGO

Send Your Orders to

WILLIAM J.**SMYTH**Member Florists' Telegraph
Delivery Association**Michigan Ave. at 31st Street**Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1836 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

FLOWERS BY TELEGRAPH
SAN FRANCISCO
CALIFORNIA
Pelicano, Rossi & Co.
123 KEARNY ST.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE125,000 Sq. Ft. of Glass
WORCESTER, MASS.**Flowers by Telegraph**

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State St.

Albany, N. Y.—The Rosery, 23 Steuben St.

Albany, N. Y.—William C. Gloeckner, 97 State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont St.

Buffalo, N. Y.—S. A. Anderson, 440 Main St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid Ave.

Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th St.

Cleveland, O.—The Smith & Feters Co., 735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643 Broadway.

Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.

New London, Conn.—Reuter's.

Newport, R. I.—A. T. Bunyard, 145 Bellevue Ave.

New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.

New York—David Clarke's Sons, 2139-2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. corner 44th St. and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stump, 761 Fifth Ave.

New York—Thos. F. Galvin, Fifth Ave., at 46th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.

San Francisco—Pelicano, Rossi & Co., 123 Kearny St.

St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.

Washington, D. C.—Gude Bros., 1214 F St.

Washington, D. C.—F. H. Kramer, 915 F St., N. W.

Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

*Penn The Florist***"The Telegraph Florist"**

Member of Florists' Telegraph Delivery

124 Tremont St., BOSTON**REUTER'S** Members Florists
Telegraph
Delivery

STORES IN
New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence
ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,**CLEVELAND**

Euclid Avenue
The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
106 STATE STREET, ALBANY, N. Y.



Special Notice

Our Mr. Greenlaw is now in the East calling on the flower trade with a superb line of

Fancy Baskets in all shapes and sizes made especially to our order and representing the latest color ideas and most up-to-date patterns. Also the same in Exclusive Ribbons and other florists' supplies. If any one is interested in making arrangements for the new season now approaching—and this is a good time to do so—drop us a line and we will have our representative call.



S. S. PENNOCK-MEEHAN CO.
THE WHOLESALE FLORISTS OF PHILADELPHIA

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin and St. Paul Sts.

WASHINGTON
1216 H Street

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

Mrs. A. L. Vaughan and daughter will spend several weeks on the Pacific coast.

Jas. G. Hancock and family spent a very quiet week resting in a cottage at Deer Park, Ill.

Wm. T. Duntermann, of Bensonville, who was so seriously injured at a fire several weeks ago, is said to be on the way to recovery.

Nelda Wolf, of Zech & Mann's, has returned from a vacation and is again presiding over the books of which she has had charge for many years.

Miss Gertrude Lewis is spending a month in Colorado. Miss Lewis, who is one of the most artistic flower workers in the trade, has been with J. Mangel for a number of years.

Two large wreaths, the gift of Peter Reinberg, were placed on the monument commemorating the Fort Dearborn massacre which occurred 104 years ago, at the exercises August 15.

The large rockery on the grounds at Frank Oechslein's new residence is nearly completed. The shrubbery which forms such a part of the effect will take time to be at its best but is already attractive.

The death of the noted surgeon, Dr. John Murphy, Aug. 11th, almost caused a panic in the Chicago flower market. In spite of the newspaper notice to omit flowers there were six autos filled

with them, many of which were carried to Mercy Hospital, where he had spent so much of his time.

One of the most attractive windows in the downtown district now is that of J. Mangel, the Palmer House florist. As much space as possible is given to water, which bubbles and flows among the plants and water lilies. The conservatory, just remodeled, also has much floor space devoted to water, and there are miniature rockeries and islands among which live ducks paddle about.

The Geo. Wienhoeber store at 41 S. Wabash avenue is being entirely remodelled, and the rear partition being removed, throwing this store and the one around the corner on Monroe street into one large store. New tile floors have been laid. The walls will be of two-tone gray panels and the lower part covered with mirrors. The new main floor office is in mahogany and a private office is on the balcony. The store when completed has the advantages of a corner without being on one.

August Poehlmann returned Sunday night from a trip with his family to Delevan Lake, Wis. At Morton Grove everything is in splendid late summer condition and the question of the advisability of continuing the culture of the American Beauty rose never enters here. They have been cutting from the new stock for several weeks and

the quality of the Beauties is excellent. In the carnation range, when completely filled there will be something like 200,000 plants. It will be of interest to some to know how this large number is proportioned. In white, of Matchless there are 32,000, White Perfection 50,000, White Enchantress 5,000 and White Wonder 16,000. Thirty-two thousand red are divided evenly between Beacon and Champion and another 32,000 are of Alice and still another of Enchantress. Tony Gabel, in charge of the carnations, says the effect of the early wet season was quite overcome by the hot July and plants are in very fine condition.

Poehlmann Bros. Co. cut their first Golden Glow chrysanthemums this week. Their stock for cutting numbers 80,000 plants. T. Conlan, who is in charge of the plant range which now includes 150,000 sq. ft. of glass, says the summer has not been the best for out-of-door plants but those under glass, as pandanus, crotons, ferns, etc., are looking exceptionally well. A lath house 35 x 300 ft. is filled with araucarias. The palm houses are under the special care of H. M. Oeser and contain 75,000 plants. The establishment altogether includes about 2,000,000 sq. ft. of glass. There are many things to be learned in any large place and Poehlmann Bros. are generous in giving out information they have gained by years of experiment and often at considerable cost.

BASKETS BASKETS BASKETS

BUY YOUR FALL SUPPLIES NOW

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Don't Miss This Chance

Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

1129 Arch Street, PHILADELPHIA, PA.

PITTSBURGH.

The members of the Florists' Club of Pittsburgh and the Horticultural Society of Western Penn. were entertained on Tuesday at the E. C. Ludwig farm, near Mars, Pa.

Miss Emma B. Maxwell and sister of Wilkesburg left last Saturday, for a month at Van Buren Point, Dunkirk, N. Y. John McClements returned last Monday from a several days' business trip in Cleveland, O. Edward L. Weaver, a salesman for Randolph & McClements, returned at the same time from a two weeks' camping trip. Accompanied by Mrs. Marshall, Geo. W. Marshall of the McCallum Co., is spending a fortnight at Geneva-on-the-Lake (Erie), Ohio. Edward Ashcraft has returned from his vacation, which was spent in Detroit, Michigan and Windsor, Canada.

WASHINGTON, D. C.

The Senate Finance Committee has agreed to knock out the provisions in the present war emergency revenue act providing for the payment of a stamp tax upon express and freight receipts and telephone and telegraph messages where the cost thereof exceeds 15 cents.

Mrs. J. R. Freeman is about to retire from the flower business and signs are appearing in the window of the store offering the establishment for rent. The greenhouses will also be rented. It is said that Louis Freeman, one of her sons who has been aiding in the carrying on of the business, and Harry Payne will go into business somewhere in the immediate neighborhood shortly. Mr. Payne is manager of the store.

Philadelphia, Pa.—W. Atlee Burpee, Jr., is to be married on November 1, to Miss Jeannetta D. Lee of Philadelphia.

Cincinnati—Jos. Enneking, manager of Max Rudolph's place is receiving the sympathy of friends in his bereavement over the death of his mother, Mrs. Frances Enneking.

BOSTON.

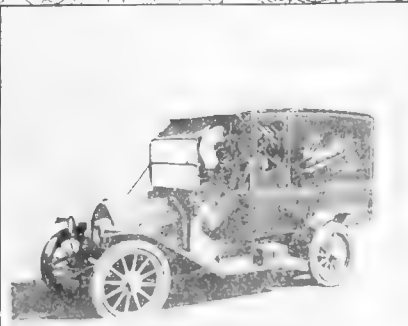
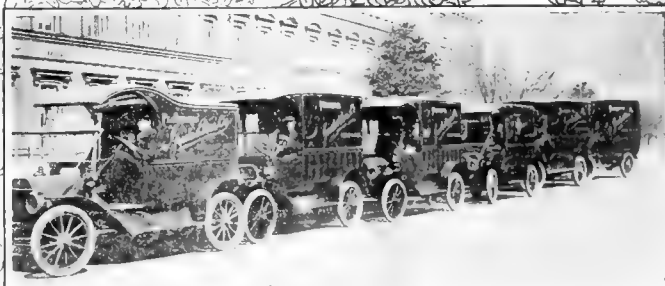
During the heavy wind and hail storm on Tuesday, August 8, one of the greenhouses owned by Peter Boll at Wakefield was demolished. The house was 12 by 105 ft. and filled with asparagus. Every pane of glass was smashed and the frame work raised

from its foundation. Mr. Boll lost two large, heavily-laden apple trees. One was torn up by the roots and the other broken entirely off. Several other trees in the neighborhood were damaged. About 50 panes of glass were broken in the greenhouses of Charles C. Ball, North avenue.

OUR MOTTO FOR PROGRESSIVENESS

"Customers must be satisfied,"

has made our unexcelled delivery possible. Send us your next order for Washington, D. C., and vicinity if you appreciate quality, quantity and mode of good conduct.



GUDE BROTHERS CO.

Members of the F. T. D.
**Florists and
Floral Decorators
Washington, D. C.**

Florist Telegraph and Mail Order Service

Will be stronger and better as soon as every good reliable Retailer fills an out of town order the same way as he would fill an order **FOR THE BEST PATRON OF HIS SHOP.**

In order to give your Retail Florist correspondent a fair chance to fill this order according to your wishes give him the **FULL AMOUNT FOR WHICH YOU HAVE TAKEN THE ORDER.**

We have sent a great many orders to a good many different cities, also received many orders and comparatively few complaints have come to us where **A MEMBER OF THE FLORISTS' TELEGRAPH DELIVERY** filled the order. I can also safely state that in most cases we received our money very promptly from F. T. D. Members and we also have seen to it that our bills were paid within thirty days to Retailer filling orders for us.

Our annual business of transferring and receiving orders from and to other Retail Florists amounts to more than \$5,000. We are always sure to make 20 per cent on all orders we send other Retailers to fill, yet we are never so sure of making 20 per cent on orders we fill here as the amount telegraphed to us is sometimes not enough to carry out the order, like we must to uphold our firm's reputation.

THE L. BEMB FLORAL CO.

Albert Pochelon Proprietor, Detroit, Mich.

A GLADIOLUS FETE.

The opening of "Cedar Acres," the beautiful estate and gladiolus farm of Mr. and Mrs. B. Hammond Tracy, at Wenham, Mass., for charitable purposes, as announced for Wednesday, August 9, created much interest in society circles along the North Shore. Unfortunately the rains descended on Wednesday as they had done during the greater part of the past weeks and it became necessary to postpone the event until Thursday, when, although it still was showery, the occasion was eminently successful and a substantial sum of money, resulting from gate receipts and the sale of flowers, was added to the fund for the American Ambulance Hospital at Neuilly, France.

The gladiolus farms at Cedar Acres comprise 27 acres in one piece, 15 acres in another and 2½ acres in another. All the leading gladiolus novelties and popular varieties are seen here in vast plantations and when in the height of their blooming the landscape is a veritable sea of flaming color. Of the variety Halley alone, there are one million plants this season. A violent electric storm and cloudburst three days previous to the fete had beaten down the spikes and crushed the flowers in the soil but still there was a grand array of cut blooms in the big concrete storehouse, arranged with the cleverness and taste which Mrs. Tracy has demonstrated wherever she has placed these rather difficult flowers on exhibition. There were splendid combinations of harmonizing and contrasting tones that compelled admiration. While many of the va-

rieties on display were the outstanding favorites of present day gladiolusdom yet among the most noticeable ones were many seedlings of which Mr. Tracy has obtained control and which are really sensational in their qualities of substance, form and color. One only we shall mention here, a deep velvet red flower with a black throat, closely resembling an enormous fancy pelargonium.

In the fields, the widely varying character and habit of the different varieties was distinctly in evidence after the heavy rains. Halley, unrivalled in its class as a cut flower, was prone in the mud everywhere, while Klondyke stood up with foliage and flower spikes as rigid as if made of steel, while Princes with its yucca-like foliage and stocky spikes of amaryllis-like flowers seemed the ideal bedder.

Cedar Acres is 23 miles from Boston and visitors always receive a hospitable welcome.

THE NEW "RAINBOW" FREESIAS.

Since some parties feel a little hesitancy about investing in the Rainbow Freesias, seemingly scared by their cost, we addressed the grower for further particulars and in reply we can report as follows:

These freesias have been hybridized for the last seven years. The result has been a strain far superior to any imported stock. Reproduction of fixed shades being uncertain, they can be offered safely only in the mixture of sundry neutral tints in lavender, old gold, yellow, and pinkish, all blending very harmoniously, and giving even an

orchidlike effect. This will surely be appreciated by a discriminating better class trade; and it should be the freesia to be grown by those who run store and greenhouses. Once introduced, they will be permanent additions to the better-class store cutflower trade. Too expensive? Not at all when you will obtain, as has been done in the past, with their branching habit two to four sprays from the main shoot, and larger bulbs producing repeatedly two and more flowering spikes to the bulb. The old freesia seldom produces more than one flower spike; thus at \$10 per 1000 for these and \$40 per 1,000 for the Rainbows, the flowers cost about alike. All it takes is a little confidence and courage to help introduce a new acquisition of merit. When more than 30 years ago the first freesias from the cape were consigned to our firm, they sold at \$40 per 1,000, and proved a paying success. They were called at the time African lily of the valley. Many a dollar has been since then made on freesias by many growers.

WINIFRED ROELKER.

Niagara Falls, Ont.—John Dobbie, florist, of Victoria avenue, has not heard any word from his son, Private Gordon Dobbie, who three weeks ago was reported among the missing in the European war at the front in France. Young Dobbie had been on the firing line since the early part of the conflict. When last seen during the Ypres battle Gordon was assisting a comrade, and it is feared that he has been killed, as he has not been reported among the list of Canadian prisoners.

FOR KANSAS CITY

And Points in Missouri and Westward.

Orders from Florists Anywhere for Design Work, Cut Flowers
or Plants Promptly and Carefully Executed.



Samuel Murray

1017 Grand Ave., Kansas City, Mo.

The Leading Flower Emporium of the West.

MEMBER OF F. T. D.

Now Is The Time To Put
In Next Season's Supply of
SPHAGNUM MOSS

Six 5 Bbl. Bales for \$10.00

This is the biggest value in Moss you can buy. Our Moss is clean and fresh and each bale is wrapped.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S
Wholesale & Commission Florists
FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

EDWARD REID
WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER
122 West 25th St., New York
Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 2860 Madison Square

WOODROW & MARKETOS

WHOLESALE

Plantsmen and Florists

37 and 39 West 28th St., NEW YORK



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut
Flower Market

Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

226 DEVONSHIRE ST.,
Telephone, Main 6267-6268

BOSTON, MASS.

**WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100
TO DEALERS ONLY**

	BOSTON August 17		ST. LOUI August 14		PHILA. August 14	
Roses						
Am. Beauty, Special	15.00	to 25.00	15.00	to 25.00	20.00	to 25.00
" Fancy and Extra	10.00	to 15.00	8.00	to 10.00	10.00	to 10.00
" No. 1 and cult.	1.00	to 6.00	1.00	to 5.00	3.00	to 8.00
Russell, Hadley	2.00	to 10.00	5.00	to 10.00	2.00	to 10.00
Killarney, Hillingdon, Ward, Extra	4.00	to 8.00	5.00	to 8.00	4.00	to 6.00
" Ordinary	.50	to 2.00	3.00	to 4.00	1.00	to 3.00
Arenburg, Radiance, Taft, Key, Extra	2.00	to 8.00	.....	to	4.00	to 3.00
" Ordinary	.50	to 2.00	.....	to	1.00	to 3.00
Ophelia, Mock, Sunburst, Euler, Extra	3.00	to 8.00	5.00	to 8.00	4.00	to 8.00
" Ordinary	1.00	to 2.00	2.00	to 3.00	1.00	to 3.00
Carnations	.....	to 2.00	.....	to 3.00	1.00	to 1.50
Cattleyas	40.00	to 50.00	30.00	to 40.00	60.00	to 75.00
Dendrobium formosum	.....	to 25.00	.....	to .....	.....	to
Lilies	4.00	to 6.00	10.00	to 12.50	6.00	to 8.00
Lily of the Valley	4.00	to 5.00	4.00	to 5.00	4.00	to 6.00
Snapdragon	.50	to 2.00	3.00	to 4.00	.....	to
Gladioli	1.00	to 4.00	3.00	to 4.00	1.00	to 3.00
Asters	.....	to 2.50	.....	to .....	.50	to 3.00
Dahlias	.15	to .75	.15	to .25	.50	to 1.50
Gardenias	20.00	to 25.00	.....	to .....	.....	to
Adiantum	.....	to 1.00	1.00	to 1.25	.75	to 1.00
Smilax	10.00	to 12.00	12.00	to 15.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (too Bchs.)	20.00	to 25.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

493 WASHINGTON STREET - - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER OF

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

With the exception of **BOSTON** gladioli, flowers may really be called scarce in this market. Some dealers are not disposed to admit that there are too many gladioli, but the numerous jars of this flower standing around on the tables in the wholesale marts are mute evidence to the fact. It is equally true, however, that fine spikes of the greenhouse brand of some of the most desirable varieties sell readily at good prices while the general run of outdoor stock remains unsold. Asters are poor and few. There will soon be a good supply of the later flowering and better sorts. Lily of the valley is very scarce. Roses are selling for prices as good as in winter for corresponding quality and there are none too many of them. Business is considered good for the season.

The past week has seen **BUFFALO** a scarcity on flowers.

There has been scarcely enough stock to take care of the trade. The severe hot weather has burned up the early aster crops and what few are coming in are of poor quality. The gladiolus is in about the same stage. Good local stock is selling at sight. Carnations are small and poor and the hot weather has had a bad effect on lilies. Roses are small and there are not many to be had. Lily of the valley is not plentiful.

Very unusual summer **CHICAGO** conditions still prevail.

Instead of the usual lethargy, business is good and the grower who has anything to offer now can get good returns. Such is the demand, as compared with the limited supply of good stock, that buyers have to be on the alert to get their share. The poorer stock, like the other poor, is always with us, but this is limited to a fourth of the usual mid-summer supply. American Beauties, long so hard to get, are now coming from the new plants, but the number cut is still small. Asters, the standby of late summer, are to be had in several grades, but few being first-class. New carnations, many cut in the field, are selling this year because their old rival, the aster, is not up to average. Roses of all kinds are in fairly good supply and quality not bad for the season. Gladioli are most welcome at this time and quality is good. There are plenty of lilies. Miscellaneous outdoor flowers are almost absent from the counters. There is plenty of good green.

Last week's receipts **CINCINNATI** were fair while the demand was steady and strong. This week's receipts are running heavier. The supply of good roses is very small. Lilies are in a heavy supply and meet with a good market. Gladioli are plentiful. The aster supply is only fair but should be heavy again before the end of this week. Hardy hydrangea sells pretty well.



EASTER LILIES

A flower we can recommend for hot weather. In quantity with us, splendid quality, shipped either in tight buds or open flowers.

\$1.50 per Dozen
\$8.00 to \$10.00 per 100

Field grown Carnation Plants, all varieties; extra well grown plants. For complete list see classified in this issue.

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of **PHILADELPHIA**

NEW YORK **PHILADELPHIA**
117 W. 28th St. 1608-1620 Ludlow St.

BALTIMORE **WASHINGTON**
Franklin & St. Paul Sts. 1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI August 14		CHICAGO August 14		BUFFALO August 14		PITTSBURG August 14	
Roses								
Am. Beauty, Special	20.00	to 25.00	25.00	to 30.00	20.00	to 25.00	20.00	to 25.00
" " Fancy and Extra	15.00	to 20.00	15.00	to 20.00	12.00	to 15.00	10.00	to 15.00
" " No. 1 and 2	10.00	to 15.00	5.00	to 10.00	6.00	to 10.00	4.00	to 6.00
Russell, Hadley	3.00	to 4.00	3.00	to 4.00	2.00	to 3.00	2.00	to 3.00
Killarney, Hollington, Ward, Extra	5.00	to 6.00	6.00	to 8.00	4.00	to 6.00	6.00	to 8.00
" " Ord.	4.00	to 5.00	2.00	to 5.00	2.00	to 4.00	2.00	to 4.00
Arenburg, Radiance, Taft, Key, Ex.	5.00	to 6.00	1.00	to 8.00	2.00	to 4.00	2.00	to 4.00
" " Ord.	3.00	to 4.00	2.00	to 5.00	2.00	to 4.00	2.00	to 4.00
Ophelia, Mock, Sunburst, Euler, Ex.	5.00	to 6.00	1.00	to 8.00	5.00	to 6.00	6.00	to 8.00
" " Ord.	3.00	to 4.00	2.00	to 5.00	2.00	to 4.00	2.00	to 4.00
Carnations	.....	to 2.00	.....	to 1.00	1.00	to 2.00	.....	to 1.00
Cattleyas	50.00	to 60.00	4.00	to 5.00	.....	to 1.00	.....	to 50.00
Dendrobium formosum	.....	to 1.00	.....	to 1.00	.....	to 1.00	.....	to 1.00
Lilies	8.00	to 10.00	8.00	to 10.00	8.00	to 10.00	8.00	to 10.00
Lily of the Valley	5.00	to 7.00	4.00	to 5.00	4.00	to 5.00	4.00	to 5.00
Snape-dragon	4.00	to 6.00	2.00	to 5.00	.....	to 1.00	.....	to 1.00
Gladioli	4.00	to 6.00	2.00	to 5.00	2.00	to 4.00	4.00	to 8.00
Asters	2.00	to 4.00	1.00	to 4.00	1.00	to 2.00	1.50	to 3.00
Dahlias	.....	to 1.50	.....	to 2.00	1.00	to 3.00	.....	to 1.00
Gardenias	.....	to 1.00	.....	to 1.00	.....	to 1.00	.....	to 1.00
Adiantum	.....	to 1.00	.....	to 1.00	1.00	to 1.25	1.00	to 1.25
Smilax	12.00	to 15.00	12.00	to 15.00	.....	to 15.00	.....	to 15.00
Asparagus Plu. & Spreng. (100 Bhs.)	25.00	to 35.00	25.00	to 50.00	25.00	to 50.00	30.00	to 50.00

Any one of our recent **NEW YORK** weekly reports would fit all right for the present week. There is no change in the situation, which continues with scarcely a ripple to stir the placid surface of the wholesale district. Never has there been a quieter August for the florist trade of New York. Stock coming in is not heavy but more than sufficient for all possible needs. Gladioli are a burden, many of them of the old types that have been entirely supplanted in the esteem of the buying trade. These, with asters and dahlias "rule the roost."

There has been **PHILADELPHIA** a little more activity in the flower market here this week. Good stock is rather on the scarce side. Gladioli are plentiful at present and of fine quality. They are easily the leading feature of the market. Asters are also plentiful but the good ones are scarce. There are signs that a few more days will make a change for the

better in the aster situation as some of the finer mid-season varieties have commenced. Roses are in rather short supply especially in the higher grades. New crop Beauties are in moderate evidence. Jonkeer, Russell and Sunburst show up about as well as any of them. Plenty of splendid lilies. Cattleyas very scarce; not nearly enough to fill orders. Hydrangea heads and early cosmos have made their appearance and are meeting with moderate demand.

The past ten days, **PITTSBURGH** which have been marked by ideal weather conditions with just a suggestion of autumn in the air, have not as yet given any material change to floral conditions. Owing to the recent protracted hot weather, there are no good asters and practically no small flowers. White roses are particularly scarce, as also are lilies. There are no carnations to speak of, the few coming in being small and inferior in every respect. Sweet peas, too, are just about as scarce and inferior. Good gladioli are plentiful, however.

(Continued on Page 262)

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street
Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK
Telephone 5335, Farragut.
Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE 608 / 609 MADISON SQ., NEW YORK

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.
Tel. 1593 / 5893 Mad. Sq. 119 W. 28 St., New York

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.

Wholesale Commission

READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE 2281 / 3089 FARRAGUT 131 West 28th St., NEW YORK CITY

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS
GARDENIAS, DAISIES, ROSES, CARNATIONS

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 7062 Madison

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones 1664 / 1665 Madison Square

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only**MISCELLANEOUS**

	Last Half of Week ending Aug. 12 1916		First Half of Week beginning Aug. 14 1916	
Cattleyas.....	20.00	to 75.00	25.00	to 75.00
Dendrobium formosum.....	20.00	to 25.00	20.00	to 25.00
Lilies.....	2.00	to 4.00	3.00	to 4.00
Lily of the Valley.....	3.00	to 5.00	3.00	to 5.00
Snapdragon.....	.50	to 3.00	.50	to 2.00
Gladioli.....	1.00	to 2.00	.50	to 1.00
Asters.....	.35	to 1.00	.25	to 1.00
Sweet Peas.....	.15	to .50	.15	to .50
Gardenias.....	4.00	to 12.00	4.00	to 12.00
Adiantum.....	.95	to .50	.25	to .90
Smilax.....	6.00	to 8.00	6.00	to 8.00
Asparagus Plumosus, & Spreng (100 bunches).....	10.00	to 15.00	10.00	to 15.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for do-
ing our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK
Phones 2036, 2037, 558 Farragut

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797-798-799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality.

114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13—8510 Madison Square

MAURICE L. GLASS, Treasurer

Consignments Solicited

Flower Market Reports

(Continued from page 1)

Wholesale market is in **ST. LOUIS** better condition than for some time. Showers have helped greatly the outdoor stock which was nearly all burned out. Prices are not high and quality is poor. Gladioli are much in evidence just now. Roses are in fair flower but short in stem. Lily of the valley holds well, also lilies. Hydrangeas are in demand.

WASHINGTON Business during the past week has been comparatively satisfactory considering the season of the year. The bulk of the sales are on gladioli which are flooding the market. It is practically impossible to get high-grade roses and carnations and orders for these are turned down. Dahlias are improving in quality. Asters are more plentiful but are practically worthless.

VISITORS' REGISTER.

New Orleans, La.—W. F. Gude and Adolphus Gude, Washington, D. C.

Chicago: Mrs. J. Rovotzas and Mrs. W. Terwilliger, of The Hennepin Store, Minneapolis, Minn.

St. Louis, Mo.—George Hampton, Phila.; Robt. J. Windler, Rodgers Park, Chicago; Sam Seligman and Robt. Newcomb, Chicago.

Cincinnati, O.—O. A. Fagin, Mt. Holly, Ohio; Oscar Leistner, Chicago, Ill.; H. N. Brothers, of the J. M. Gasser Co., Cleveland, Ohio; W. J. Marion; Circleville, Ohio; John Evans, Richmond, Ind.

Boston—W. A. Sperling, New York; I. S. Hendrickson, Flowerfield, N. Y.; T. A. Havemeyer, Glen Head, N. Y.; A. Lahodny, Glen Head, N. Y.; F. S. Morton, Portland, Me.; C. Zeestraden, Mayville, New York; Maurice Fuld, New York; J. J. Lane, Garden City, N. Y.; H. Youell, Syracuse, N. Y.; David Burpee, Philadelphia, Pa.; A. E. Kunderd, Goshen, Ind.; E. M. Smith, wife and son of East Hartford, Conn.; H. P. Knoble and wife, Cleveland, O.; Arthur Cowee, Berlin, N. Y.; L. A. Berckmans, Augusta, Ga.

Vineland, Ont., Can., Aug 16.—Two hundred residents of this section, Wednesday evening, August 9, honored F. M. Clement, director of the Vineland Horticultural Experimental Station, who is leaving shortly to become Professor of Horticulture in British Columbia. At a special meeting held here in Victoria Hall, a presentation of cut glassware was made to Mr. and Mrs. Clement. Robert Barton presided at the meeting and short talks were given by Messrs. T. E. Culverhouse; Donald Johnson, Fruit Commissioner, Ottawa; Prof. J. W. Crow, Guelph; Prof. L. Caesar, Guelph; C. H. Claus, Reeve of Louth township; S. H. Rittenhouse and Stewart Thomas.

H. M. ROBINSON & CO.
BOSTON'S FOREMOST
Wholesale and Commission Florists
32 Otis Street, 2 Winthrop Square
BOSTON, MASS.
Telephone 2618-2617-2616, Main.

**Z M
E A
C & N
H N**

**FOR
QUALITY and SERVICE**

 **We are Wholesale Florists Doing
a Strictly Wholesale Business**

Long Distance Phone:
Central 3283 Central 3284 Automatic 42-965
30 E. Randolph St. Chicago

All Seasonable Flowers and Greens

THE CHICAGO FLOWER GROWERS ASSOCIATION

176 N. Michigan Avenue,

CHICAGO, ILL.

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A.M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Aug. 12 1916		First Half of Week beginning Aug. 14 1916	
American Beauty, Special	15.00	to 20.00	15.00	to 25.00
" " Fancy and Extra	6.00	to 12.00	10.00	to 15.00
" " No. 1	2.00	to 6.00	3.00	to 8.00
Russell, Hadley	2.00	to 8.00	3.00	to 8.00
Killarney, Richmond, Hillingdon, Ward, Extra	3.00	to 4.00	3.00	to 4.00
Ordinary .....	.25	to 1.00	.25	to 1.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 6.00	3.00	to 6.00
Ordinary .....	.25	to 2.00	.25	to 2.00
Ophelia, Mock, Sunburst, Extra	3.00	to 5.00	3.00	to 6.00
Ordinary .....	.50	to 2.00	.50	to 2.00
Carnations, Fancy .....	.....	to 1.00	.....	to 1.00
Ordinary .....	.50	to 1.00	.50	to 1.00

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street
167 & 3058 Farragut NEW YORK

Established 1888 Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists
110 West 28th St., New York
We Solicit Consignments of New
England Grown Novelties.

J. J. COAN, INC.

115 WEST 25TH STREET
New York
Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co. (INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK
Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of
Good Stock Solicited

PERCY W. RICHTER, Mgr., NEW YORK
111 W. 28th Street

HERMAN WEISS

Wholesale Florist

Experienced, Progressive and can handle
shipments of growers' product
satisfactorily.

106 West 28th St., NEW YORK
Tel. Farragut 3066.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

ADIANTUM FARLEYENSE GLORIOSA

Henry A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-LINGDALE GREENHOUSES, Collingdale, Pa.

AUCTION SALES

The MacNiff Horticultural Co.,
New York City.
For page see List of Advertisers.

Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price-list.
JULIUS ROEHR'S CO., Rutherford, N. J.

BEDDING PLANTS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

BEGONIAS.

Mrs. J. A. Peterson (New), 2 1/4 in. pots,
\$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHR'S CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda,
N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Hitchings & Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made.
Write for list. HOLTON & HUNKEL CO.,
Milwaukee, Wis.

BOX TREES

BOX TREES—Standards, Pyramids and
Bush. Price list on demand.
JULIUS ROEHR'S CO., Rutherford, N. J.

BOXWOOD

August Rolker & Sons, New York City.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
Lily Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Rainbow and Purity Freesias.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

The MacNiff Horticultural Co.,
Holland Grown Bulbs.
New York City.

For page see List of Advertisers.

Henry F. Mitchell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.

For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

Peter Henderson & Co., New York City.
Henderson's Superior Bulbs for Autumn
Planting.

C. KEUR & SONS, HILLEGOM, Holland
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

Mr. B. Progressive, Florist,
Everywhere, U. S. A.

Dear Sir: It will be a decided advantage
as regards prices and quality to place your
order with us.

Soliciting your order through this ad
cuts down the overhead selling expenses
and you positively get lower prices and
better quality. Our terms are liberal and
are a guarantee that you get a square
deal, all bulbs guaranteed true to name or
money refunded.

Write us and upon request we will mail
you our booklet giving prices f. o. b. New
York or Chicago, and we also cheerfully
furnish you with any information that
may be desired. Those of our friends who
will mail us a list of their requirements
will find it has paid them to do so.

Awaiting to hear from you at your pleas-
ure, we remain,
Yours very truly,
Westerbeek & Klyn,
Sassenheim, Holland

Write to WESTERBEEK & KLYNN, 14
STONE ST., NEW YORK, N. Y.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. J. Goddard, Framingham Centre, Mass.
Crimson Carnation Doris.
For page see List of Advertisers.

CARNATION STAPLES

Split carnations quickly, easily and
cheaply mended. Pillsbury's Carnation
Staple, 1000 for 35c.; 3000 for \$1.00 post-
paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
Pompon Chrysanthemums.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City
Emma, a Garza Anemone, Double
Pompon, pale pink.

DAHLIAS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

ORDERS BOOKED ANYTIME

For Fall or Spring delivery. Wholesale and
Retail. Send for Catalogue. NORTHBORO
DAHLIA & GLADIOLUS GARDENS, J. L.
Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest,
Best. New color, new form and new habit
of growth. Big stock of best cut-flower
varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

EUONYMUS RADICANS

Euonymus Radicans. Several thousand,
from rooted cuttings to sturdy plants four
and five years old. This is a large-leaf,
quick growing variety of Radicans. It
originated in this town and is extremely
desirable. Price and sample plants on ap-
plication. F. E. PALMER, INC., Brook-
line, Mass.

FERNS

A. M. Davenport, Watertown, Mass.
Ferns in Flats.
For page see List of Advertisers.

R. Vincent, Jr., & Sons Co., White Marsh,
Maryland.
Boston Ferns.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

For List of Advertisers See Page 231

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FLORISTS' PLANT STOCK

Anglin & Walsh Co., Williamst Bridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FREESIAS

August Rolker & Sons, New York City.
Rainbow and Purity Freesias.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums S. A. Nutt, rooted cuttings,
\$8.00 per 1,000; 2 1/4 in., \$15.00 per 1,000.
First class stock. Cash. FRANK LEITH
& SON, Haverhill, Mass.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, cas-
tles, globes, aquarium, fish goods, nets,
etc., wholesale. FRANKLIN BARRETT,
Breeder, 4815 D St., Olney, Philadelphia,
Pa. Large breeding pairs for sale. Send
for price list.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset,
Boston.

Pecky Cypress.

For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

John C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION—Con.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

Hitchings & Co., New York City.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit,
Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

Pailsades Nurseries, Inc., Sparkill, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co.,
Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

IRIS

John Lewis Childs, Flowerfield, N. Y.
German Iris.
For page see List of Advertisers.

Albert Victor Pallida, best cutting va-
riety, \$1.00 per 10, \$6.00 per 100, \$50.00 per
1000. HENRY C. ECKERT, Belleville, Ill.

LILY BULBS

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Lilium Harrisii Bulbs.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hohmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.,
Hathboro, Pa.
For page see List of Advertisers.

NIKOTEEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

R. & J. Farquhar & Co., Boston, Mass.
Trees.
For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

NUT GROWING

The Nut-Grower, Wayercross, Ga.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Paul de Nave, Fall River, Mass.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.

PALMS

August Rolker & Sons, New York City.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

PANSY SEED

Chas. Frost, Kenilworth, N. J.
The Kenilworth Giant Pansy.

Henry F. Mitchell Co., Philadelphia, Pa.
Giant Prize Pansy Seed.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

French Peonies can be shipped with
celerity and security via Bordeaux-New
York. Catalogues free. DESSERT, Peony
Specialist, Chenonceaux (I. & L.), France.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

POINSETTIAS.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS. THE
CONARD & JONES COMPANY, WEST
GROVE, PA.

ROSE STAKES

The Carnation Support Co.,
Connersville, Ind.
For page see List of Advertisers.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Boigliano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Florists' Flower Seed for Present Sowing.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Mignonette, Improved Eclipse.
For page see List of Advertisers.

Roman J. Irwin, New York City.
New Crop Florists' Seeds.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Seeds for the Florist.
For page see List of Advertisers.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

The Leo Nissen Co., Philadelphia, Pa.
For page see List of Advertisers.

STRAWBERRY PLANTS

Wilfrid Wheeler, Concord, Mass.
Pot Grown Strawberry Plants.
For page see List of Advertisers.

Elizabeth Nursery Co., Elizabeth, N. J.
Pot Grown Strawberry Plants.

STRAWBERRY PLANTS for August and
Fall planting. Runner and pot-grown
plants that will bear fruit next summer.
Standard and Everbearing varieties. Also
Raspberry, Blackberry, Asparagus Plants,
Fruit Trees. Catalogue free. Wholesale
price list sent to florists. HARRY E.
SQUIRES, Remsenberg, N. Y.

SWEET PEA SEED

Arthur T. Boddington Co., New York City.
Winter Flowering Spencer Sweet Peas.
For page see List of Advertisers.

SWEET PEA SEED—Continued

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.

For page see List of Advertisers.

Stumpp & Walter Co., New York City.
Early Flowering Sweet Peas.

TREES

R. & J. Farquhar & Co., Boston, Mass.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 29 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 493 Washington St.
For page see List of Advertisers.

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 264-266
Randolph St.
For page see List of Advertisers.

For List of Advertisers See Page 231

WHOLESALE FLORISTS New York

- H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.
- James McManus, 105 W. 28th St.
For page see List of Advertisers.
- W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.
- P. J. Smith, 131 West 28th St.
For page see List of Advertisers.
- Hentz & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.
- Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.
- W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.
- J. K. Allen, 118 West 28th St.
For page see List of Advertisers.
- The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.
- Traendly & Schenck, 436 6th Ave., between 26th and 27th Sts.
For page see List of Advertisers.
- Badgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.
- Woodrow & Marketos, 37 and 39 W. 28th St.
For page see List of Advertisers.
- Riedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.
- George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.
- John Young & Co., 53 West 28th St.
For page see List of Advertisers.
- M. C. Ford, 121 West 28th St.
For page see List of Advertisers.
- United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.
- Guttman & Reynor, Inc., 101 W. 28th St.
For page see List of Advertisers.
- Gunther Bros., 110 West 28th St.
For page see List of Advertisers.
- Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.
- W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.
- Herman Weiss, 106 West 28th St.
For page see List of Advertisers.
- J. J. Coan, 115 West 28th St.
For page see List of Advertisers.
- Frank Millang, 55-57 West 26th St.
- George W. Crawbuck Co., 57 West 28th St.
For page see List of Advertisers.
- Philadelphia**
- Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.
- Edward Reid, 1619-21 Ranstead St.
For page see List of Advertisers.
- The S. S. Pennock-Meehan Co., 1608-20 Ludlow St.
For page see List of Advertisers.
- Richmond, Ind.**
- E. G. Hill Co.
For page see List of Advertisers.
- Rochester, N. Y.**
- George B. Hart, 21 Stone St.
For page see List of Advertisers.
- Washington**
- The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers In This Issue

- ADVANCE SASH OPERATING DEVICE.**
Advance Co., Richmond, Ind.
For page see List of Advertisers.
- ALL SEASONABLE FLOWERS AND GREENS.**
Chicago Flower Growers' Association, Chicago, Ill.
For page see List of Advertisers.
- ALL KINDS OF PLANTS, FERNS, ETC.**
Frank Oechslin, Chicago, Ill.
For page see List of Advertisers.
- CARNATIONS, PLANTING STOCK, ETC.—FLORISTS' SUPPLIES.**
Pochlmann Bros. Co., Chicago, Ill.
For page see List of Advertisers.
- CRAIG QUALITY STOCK FOR THE FALL RUSH.**
Robt. Craig Co., Philadelphia, Pa.
For page see List of Advertisers.
- CYCLAMEN AND SWEET PEA SEEDS, BULBS FOR FORCING.**
Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.
- EASTER LILIES.**
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.
- FLORISTS' SUPPLIES—BASKETS, RIBBONS, ETC.**
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.
- FLOWERS BY TELEGRAPH.**
Gude Bros. Co., Washington, D. C.
For page see List of Advertisers.
- FLOWERS BY TELEGRAPH.**
Samuel Murray, Kansas City, Mo.
For page see List of Advertisers.
- FLOWERS BY TELEGRAPH.**
The L. Bomb Floral Co., Detroit, Mich.
For page see List of Advertisers.
- FREESIA PURITY BULBS.**
Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.
- FREESIA REFRACTA ALBA.**
J. M. Thorburn & Co., New York City.
For page see List of Advertisers.
- GREENHOUSE CONSTRUCTION.**
J. C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.
- GREENHOUSE HEATING.**
Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.
- GREENHOUSES TO VISIT ON YOUR PHILADELPHIA VACATION TRIP**
Lord & Burnham Co., New York City.
For page see List of Advertisers.
- HAMMOND'S THRIP JUICE No. 2.**
Hammond's Paint & Slug Shot Works, Beacon, N. Y.
For page see List of Advertisers.
- HARDY PERENNIALS—ROCK AND WALL GARDEN PLANTS.**
Mt. Desert Nurseries, Bar Harbor, Me.
For page see List of Advertisers.
- INSECTICIDES.**
The Plantlife Co., Inc., New York City.
For page see List of Advertisers.
- LILY BULBS FOR IMMEDIATE PLANTING—HYACINTHS BAMBOO CANES.**
Ralph M. Ward, New York City.
For page see List of Advertisers.
- THE BURNHAM'S SECONDARY CROWN SHEET.**
Lord & Burnham Co., New York City.
For page see List of Advertisers.
- THE REGAL LILY.**
Lilium regale (myriophyllum).
R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

WHOLESALE FLORISTS.

- Zech & Mann, Chicago, Ill.
For page see List of Advertisers.
- XMAS PEPPERS—ASPARAGUS PLUMOSA.**
A. L. Miller, Jamaica, N. Y.
For page see List of Advertisers.

HELP WANTED

Landscape Man and Practical Grower

of Trees, Shrubs and hardy plants. One able to draw plans and execute same, as well as interview prospective customers. State experience, salary wanted and full particulars to
LANDSCAPE,
Care of "Horticulture."

WANTED: Clerk in Florist's store in suburb of Boston. Must have had experience in selling, designing and decorating. References required. Reply to "P. F.," care of HORTICULTURE.

FOREMAN WANTED to take entire charge of greenhouse establishment near Boston. 12,000 feet of glass; grows variety of stock. Good wages. Married man with small family. "A. B. C. Co.," Horticulture.

SITUATIONS WANTED

Gardener with first-class references, 30 years old, married, no children. Experience in and outdoors on well-known private places. Address "R. S.," care HORTICULTURE, Boston.

SITUATION WANTED—Dutchman, 29 years, married, one in family, First Class Grafter and Propagator of Roses, Rhododendrons, Azaleas and General Nursery-stock, 14 years' thorough experience in grafting and can grow good stock. Kindly state wages and particulars in first letter. Care of A. KOLOS & CO., Nurserymen, 14 Stone St., New York.

FOR SALE

FOR SALE—One 6-inch Castle Circulator complete with motor, one 6-inch Blower for forced draught; 2½, 3 and 4-inch gate valves. Write if interested. CHAS. H. RICE, Bedford St., Lexington, Mass.

AUCTION SALE—September 2, 1916, at 2 o'clock. Greenhouse Plant, 7,000 sq. ft. modern glass, 50 H. P. steam boiler, good water power. One 6 room dwelling house; steam heat. Four acres good garden land. Woodbury, Auctioneer. **RIVER SIDE GREENHOUSE.** C. J. Erickson, Prop., Gardner, Mass.

MISCELLANEOUS

WANTED TO LEASE, immediately, with privilege of purchase, about 12,000-15,000 feet of glass. Easy reach of Boston preferred. Particulars to EDE, Willow Street Greenhouses, West Roxbury, Mass.

In writing to Advertisers kindly mention Horticulture

THE WHITE PINE BLISTER RUST.

Its present status in Massachusetts from the Massachusetts Forestry Association.

With the passage of the Agricultural Appropriation Bill by Congress, thirty thousand dollars becomes immediately available for use by the U. S. Department of Agriculture for the eradication of the White Pine Blister Rust in this country. Since Massachusetts has the worst infection of the Rust a large part of this money will undoubtedly be spent here.

The State Legislature appropriated \$10,000 for this work this year and with the co-operation of the Federal Government it is believed that considerable headway can be made during the remainder of this season toward running down all of the infected areas and in eradicating the diseased plants.

This disease has made the growing of our white pine impracticable in parts of Europe and unless we succeed at once in eradicating it here, we are in serious danger of losing our most valuable tree.

The Massachusetts Forestry Association, 4 Joy street, Boston, will furnish bulletins showing colored pictures of the rust free, and the citizens are asked to secure these bulletins and to inspect their own pines and currant and gooseberry bushes. The disease has two hosts, the white pine and the currants and gooseberries. It occurs on the smooth bark of the former and on the leaves of the latter. The currants and gooseberries are not affected by the Rust but they serve as a medium of spread to the pines.

Any suspicious specimens of either the pine or currants or gooseberries should be carefully packed and sent to Dr. H. T. Fernald, State Nursery Inspector, Amherst, Mass.

The owners of pines and currants or gooseberries are earnestly requested to co-operate in this respect. You may help in this way to locate any infection which has been missed by the authorities.

Now is the time to act if we are to save the white pines.



IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON

TOBACCO DUST FOR DUSTING
Put up in 100 lb. bags
Bag, \$2.25; ½ ton, \$20; ton, \$40; f.o.b. N. Y.

FUMIGATING TOBACCO POWDER
Bag, \$2.50; ½ ton, \$22.50; ton, \$45; f.o.b. N. Y.

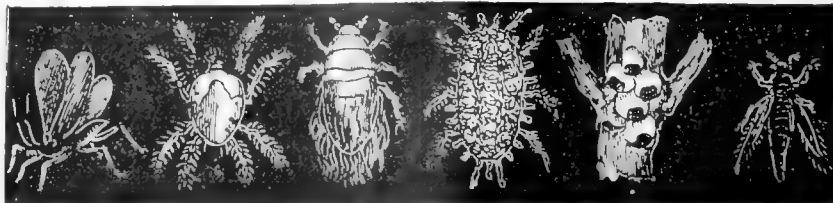
PLANTLIFE INSECTICIDE FOR DUSTING
Bag, \$2.50; ½ ton, \$22.50; ton, \$40; f.o.b. N. Y.

THE PLANTLIFE CO., Inc.
417 East 19th Street, New York City

Hammond's Thrip Juice No. 2

REGISTERED

A Contact Insecticide, Useful and Reliable, Used for 30 Years in Greenhouses, and on Plants, Grape Vines, Trees and Shrubs



Some common Sucking Insects, magnified.

HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.

FREAKISH FACTS AND FACKLESS FREAKS.

Dalton, Aug. 10. Bees happen to have a zealously maintained reputation as prohibitionists, and therefore the bee-keepers of Berkshire County who attended the annual field day of the County Association at the home of former Senator Winthrop Murray Crane today, dared not refresh themselves with anything stronger than water, lemonade and coffee. Bees have a habit of stinging anyone with a liquorish atmosphere, and the bee-keepers wanted to inspect the apiaries of Mr. Crane and other Dalton bee-lovers.

How would you like to be able to raise fruit right in your own house?

Well such is the possibility.

W. H. Bach has already produced one tree only a foot high, yet it has produced full-grown fruit. He says that indoor fruit trees, to supply the needs of the family table, are a possibility of the future.

Mr. Bach should know, for here are a few of the things that he has brought forth: Seedless lemon, resembling an orange, a monster olive, 1½ inches in diameter, a peach that ripens in October and a lime with a loose skin.

—Boston Post.

John Nolen, city planner, has been called on to help Akron, Ohio. A municipal forest of rubber trees has been suggested.

"A wealth of floral tributes," including one from the mayor, was seen at the funeral of a well-known citizen whose family had publicly asked that no flowers be sent.

Considerable discussion has risen at police headquarters over the species of plant that is growing in front of the superintendent's office. There was a tree there originally planted by Dr. Dunn, the police surgeon; then another plant was put in after the tree was cut down, at least that is the way it was at first reported. It was at first stated that this new plant was a century plant and would never grow high enough to shade the windows; then common report had it that the plant was a tomato plant. Dr. Dunn finally investigated and found that the new plant was merely a new shoot growing out of the roots of the tree which he had planted there, and which had been cut down.

—Boston Traveler.

The Superb new rose, Lomita, a yellow Cherokee more vigorous than other Cherokees. In five gallon cans, \$1.00; in one gallon cans, 50 cents.

—Advt. in a Contemporary.

Pittsfield, Mass.—Snow and frost visited the Berkshires on Aug. 13. The snow was on top of Greylock Mountain and four Pittsfield persons were caught in a veritable blizzard on the mountain top. Some of them suffered severely from the cold. The snow fell for about 10 minutes in the wake of a gale from the northwest. In Lee on Sunday night there was a heavy frost, the mercury going down to 32 degrees.

Aphine
The Insecticide that
kills plant lice
of many species

The Recognized Standard Insecticide.

A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



Unequaled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago



NIKOTEEN
For Spraying
APHIS PUNK
For Fumigating
Ask Your Dealer For It.
NICOTINE MFG. CO.
ST. LOUIS

Est. 1765

Inc. 1904

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**KING CONSTRUCTION COMPANY, North Tonawanda, N. Y.****GREENHOUSES****We Claim Maximum Strength and Minimum Shadow. Investigate**

BOSTON OFFICE: 113 State St., Boston, Mass.

PHILADELPHIA OFFICE: Harrison Building, 15th and Market Sts., Philadelphia, Pa.

DREER'S "Riverton Special" Plant Tubs

No.	Diam.	Ea.	Doz.	106
10	20 in.	\$1.60	\$17.50	\$145.00
20	18 in.	1.45	15.50	130.00
30	16 in.	1.10	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.**MASSACHUSETTS AGRICULTURAL COLLEGE.**

Professor J. G. Graham of Massachusetts Agricultural Colleges announces that in response to inquiries that have come in from time to time a one-year course in Poultry Husbandry has been prepared which it is planned to give in the coming year at Amherst. This will meet the needs of a class of people that the department has not been able to take care of heretofore.

This course is designed for graduates of the agricultural vocational schools and others who wish to take a truly vocational course and can spend only one year at college. This course is limited to 16 students the first year and begins September 20, 1916, ending June 23, 1917.

Full details of the courses will be furnished on application to Prof. Graham.

PATENTS GRANTED.

1,193,010. Lawn-Sprinkler. Henry Gibbs, Chicago, Ill., assignor to W. D. Allen Manufacturing Company, Chicago, Ill., a corporation.
1,194,027. Tree-Irrigator. Edwin A. Kanst, Chicago, Ill.

Westboro, Mass.—Paul F. Brigham, a graduate of Amherst, and proprietor of the Westboro Conservatories, is to be married to Miss Helen Isabel Adams of Waverley.

**STANDARD FLOWER
POTS**

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts., Washington, D. C.

**GREENHOUSES BUILDING OR CON-
TEMPLATED.**

Kimberly, Wis.—Wm. Green, additions.

Tewksbury, Mass.—M. A. Patten, 250 ft. house.

Old Bridge, N. J.—Otto Warendorf, house 18 x 75.

Hyattsville, Md.—Wm. Marche & Co., house 35 x 125.

Clarksville, Tex.—Mrs. Amos McCulloch, house in the fall.

Delavan, Wis.—J. P. Allyn, Allyn-hurst Farm, one house.

Lackawanna, N. Y.—R. C. Avery, rebuilding house 38 x 120.

Kansas City, Mo.—Park Board, Swope Park, five houses.

Burlington, Wis.—Burlington Floral Co., two houses each 28 x 130.

Homer, N. Y.—J. J. Arnold & Son, House 26 x 50, house 16 x 50.

Rochester, N. Y.—E. C. Colgrove, Charles street, house 20 x 100.

Wellesley Farms, Mass.—E. R. Pierce, range of Pierson U-Bar houses.

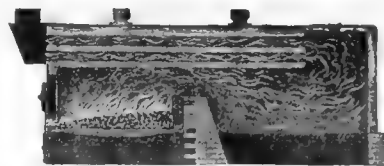
Manistique, Mich.—E. N. Johnson, Maple and Walnut streets, range of houses.

Greggs, Ill.—Bassett & Washburn, cold storage house 28 x 28; packing shed 35 x 60.

Woonsocket, R. I.—Joseph L. Savard, Merida avenue, one house and boiler house.

Washington, N. J.—Alonzo J. Bryan, East Washington avenue, five houses, each 35 x 140.

Newport, R. I.—Miss Edgar, Old Beach road, conservatory. Arthur Curtis James, Beacon Hill road, range of houses.

**KROESCHELL
BOILER****SEND FOR CATALOGUE****KROESCHELL BROS. CO.**
466 W. Erie St. Chicago, Ill.**NON-KINK WOVEN HOSE**

In any length (one piece) with couplings, 14c. per foot. Unequalled at the price. Remnants, shorter than 50 feet, 10c. per foot, with couplings.

HOSE VALVE—70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

**Evans 20th Century Arm**

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.**THE FLORISTS' HAIL ASSOCIATION**

Is a mutual organization, insuring greenhouse glass against hail. Both commercial and private establishments are accepted. For particulars, address

John G. Eiler, Sec., Saddle River, N. J.
Insure Now.

FOLEY MATERIALS

ARE THE BEST FOR
Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, CHICAGO, ILL.

CYPRESS GREENHOUSE STOCK

PECKY CYPRESS BENCH STOCK

HOT BED SASH

Ask for Circular D and Prices

THE A. T. STEARNS LUMBER COMPANY

NEPONSET, BOSTON

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

GLASS

GREENHOUSE MATERIAL
HOT-BED SASHES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc

215-217 Havemeyer St., Brooklyn, N. Y.

MASTICA



For Greenhouse
Glazing
USE IT NOW

F. O. PIERCE CO.
12W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

PATENTS

Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

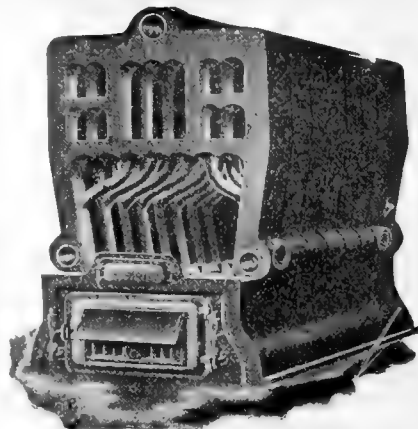
SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

WE GUARANTEE

Metropolitan Boilers to do their Work
Consuming Less Fuel than any Other Boiler



Because of their proven scientifically perfect construction, Metropolitan Patented Boilers will heat a given amount of water quicker, with less fuel, and less attention than any other boilers on the market.

The remarkable heating efficiency and quick steaming qualities of these boilers are due to their large and effective heating surface. Just a few points of Metropolitan Patented Boiler merit:—

Smooth, perfect finished castings.
Push nipple connections.

Large fire box, providing ample combustion chamber, and permitting a sufficient charge of fuel to require attention only at long intervals.

Deep ash pits, making the removal of ashes a slight task.

Large flues, making the boiler easy to clean. Grates that are made for hard usage and long service.

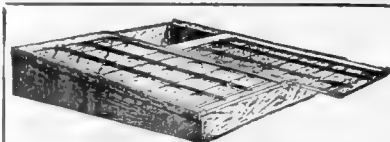
THEY ARE FUEL SAVING, NOT FUEL WASTING. AND ABOVE ALL, THEY COST LESS AND ARE CHEAPER TO OPERATE THAN ANY OTHER.

We also make soft coal boilers which are smokeless, and save 50% in coal.

Put Your Heating Problems Up To Us.
We've Been At It For 44 Years.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.



HOTBED SASH at 75c. each

Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.

Double Light Sash up to \$4.00.

We carry a large stock of all sizes.

Write us for estimate.

S. JACOBS & SONS

1359-1385 Flushing Avenue BROOKLYN, N. Y.

Dreer's Peerless Glazing Points

For Greenhouses

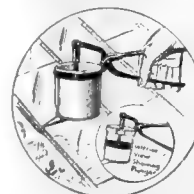
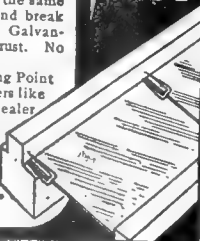
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.
Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2



Will last a life-time.

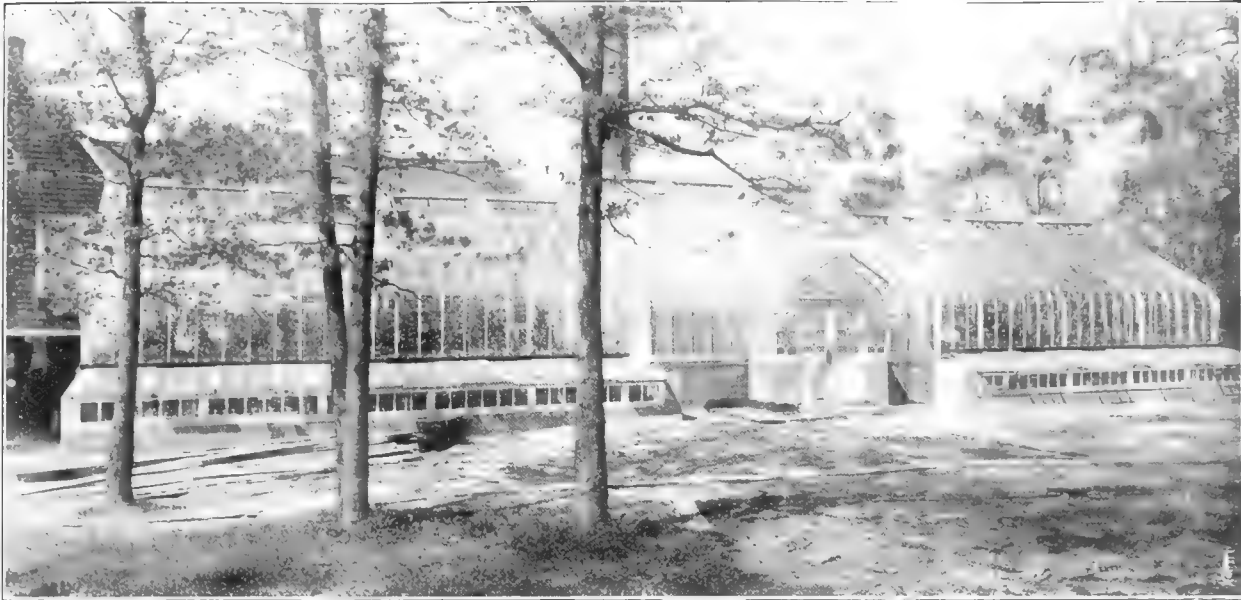
\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

Seal-tight liquid putty at \$1.25 per gallon.
METROPOLITAN MATERIAL CO.
1392-1414 Metropolitan Ave., Brooklyn, N. Y.

In writing to Advertisers kindly mention Horticulture

CONSERVATORIES OR COMMERCIAL GREENHOUSES



We put the same degree of care and workmanship into our commercial greenhouses as in our conservatories. However a commercial greenhouse has a much simpler design and consequently costs less money. The quality of the materials is exactly the same.

We have been studying greenhouses for many years and our success proves that our study has not been in vain. When you need anything in the greenhouse building line think of MONINGER'S. Estimates and sketches are free.

JOHN C. MONINGER COMPANY

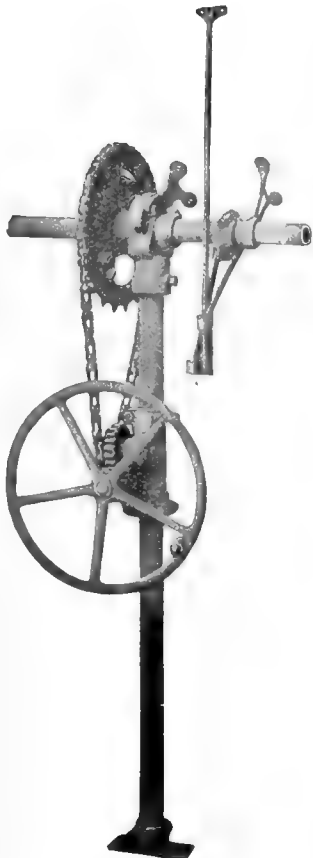
CHICAGO
922 Blackhawk Street

NEW YORK
812 Marbridge Building

CINCINNATI
2314 Union Central Building

EVERYTHING FOR THE GREENHOUSE

ASSURANCE OF PROPER VENTILATION

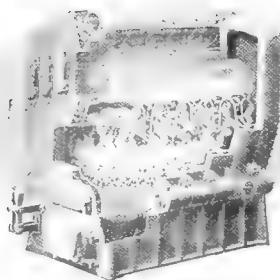


is only to be found in the ADVANCE sash operating device. Our worm and gear means that the sash are securely held in any position and no possible chance for them to drop. Our truss type arm adds to the strongness and neatness of this machine and we are certain that you will be more than pleased with this equipment.

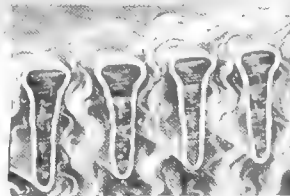
Now we want you to know about our GREENHOUSE fittings which are labor savers around your plant. We have a complete line of these such as shelf brackets, column brackets, Y fittings, pipe carriers etc. Prices are also to be noticed. Fair and square dealings at all times. To explain all let us send you our catalog.

Free on request by writing to

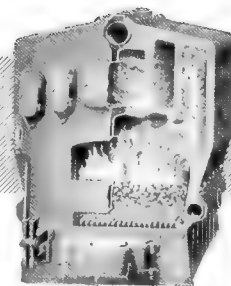
ADVANCE CO., RICHMOND, IND.



Cut Number One, showing deep, narrow water ways directly over the hottest part of the fire.



Cut Number Two. A rough sketch of the over-the-fire water ways to emphasize in your mind their key-hole shape.



Cut Number Three. Shows the secondary crown sheet at the right.

The Burnham's Secondary Crown Sheet A Great Economy Feature

LET'S get right down to bed rock on the question of the Burnham's economy. Let's see what they actually are; and prove to each of our selves that Burnham greenhouse boilers have some surprising economy construction features.

CROWN SHEET

Glance at cut Number One and you will see that running across the boiler, directly over the fire, are deep, narrow waterways, between which the flames when hottest, come in direct contact. They form the crown sheet of the boiler. The fire comes against two sides and the bottom of these deep water ways, instantly giving to the water its greatest heat.

WHY KEY HOLE SHAPED

Now look at cut Number Two. It shows you the actual key hole shape of these same across the boiler water ways. You can see how narrow and deep they are; making it possible for them to carry a thin amount of water, that will heat quickly.

Their shape is based on exactly the same principle as a kitchen stove with a wide bottomed pan filled with but shallow water; heating so much quicker than a narrow bottomed kettle containing exactly the same amount, but deeper water.

It's just common every day kitchen sense, applied to a boiler.

RAPID CIRCULATION

Now another thing about the key hole shaped water ways. That increased size at the top gives ample room for expansion and rapid circulation—a point of no small importance.

So much, then, for the harnessing up of the hottest part of the fire. Now let's take a glance at what next happens to it, on its way to the chimney.

SECONDARY CROWN SHEET

Between each section on each side of the boiler, are fine openings, up which the fire goes, coming in contact with water ways on the sides and top. Going up these side flues as it does, with considerable speed, it comes forcibly in contact with the water way at the very inside top of the boiler, which flue, as you now see, a secondary crown sheet.

With the water boiler, this secondary crown sheet gives an extra push to the water at a point where it is about to leave the boiler and go into the mains. It means increased circulation speed. With the steam boiler, it means a hotter, drier steam.

This secondary crown sheet is one of the Burnham's important economy features.

BACK AND FORTH TRAVEL

After coming in contact with the secondary crown sheet, then starts that famous Burnham "3 Times back and forth fire travel" for which the boiler is so well known.

It's "that long fire travel that also has much to do with making the short coal bill."

Back and forth the hot gases travel until they reach the smoke box and chimney with only just enough heat left in them to produce the necessary draft.

There are several other Burnham economies well worth mentioning, but these are the big ones the ones to keep in mind when some one tries to tell you that any other cast iron boiler can heat a greenhouse as economically as the Burnham Greenhouse Boiler can.

Railroads are crowded with business. Freights are slow. So order ahead of time, if you want your boiler on time.

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

SALES OFFICES:

NEW YORK
42nd Street Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Widener Bldg.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

CLEVELAND
Sweetland Bldg.

TORONTO, CANADA, Royal Bank Bldg.

MONTREAL, Transportation Bldg.

FACTORIES: Irvington, N. Y. Des Plaines, Ill. St. Catharines, Canada

Vol. XXIV
No. 9
AUG. 26
1916

HORTICULTURE



Hedge of *Thuya occidentalis* at Bar Harbor, Me.



Boddington's Re-selected Winter-flowering Spencers as grown by Wm. Sim, Cliftondale, Mass.

WINTER SPENCER SWEET PEAS

NEW CROP SEED READY FOR DELIVERY NOW

	oz.	¼ lb.	lb.
APRICOT ORCHID. Apricot.....	\$1.50	\$4.50	\$15.00
BELGIAN HERO. Rose.....	3.00	10.00	35.00
BOHEMIAN GIRL. Pink self.....	1.50	4.50	15.00
BRIDAL VEIL	1.00	3.50	12.00
CHRISTMAS PINK ORCHID. Pink and white.....	3.00	10.00	35.00
MRS. A. A. SKACH. Bright pink.....	.65	2.00	7.50
MRS. JOHN M. BARKER. Lilac, wings light blue.....	1.50	4.50	15.00
MRS. JOS. MANDA. Shell pink.....	.65	2.00	7.50
MRS. M. SPANOLIN. Pure white.....	1.00	3.50	12.00
MORNING STAR (Zvolanek's). Shell pink	3.00	10.00	35.00
ORANGE ORCHID. Orange, wings pink.....	1.50	4.50	15.00
ORCHID BEAUTY. Rose pink.....	.75	2.50	10.00
PINK AND WHITE ORCHID. Spencer form of Christmas Pink..	.65	2.00	7.50
RED ORCHID. Bright red.....	.75	2.50	10.00
ROSE QUEEN. An excellent pink.....	1.50	5.00	18.00
SENSATION. Newman & Legg's Christmas Pink Orchid.....	3.00	10.00	35.00
SENSATION SCARLET	3.00	10.00	35.00
THE CZAR. Standard rose, wings white.....	3.00	10.00	35.00
VENUS. Blush pink.....	1.50	4.50	15.00
WHITE ORCHID. Pure white.....	.65	2.00	7.50
YARRAWA. Bright, rose pink.			
Introducer's Australian-grown seed.....	2.00	9.00	24.00
Californian-grown seed .....	.65	2.25	8.00

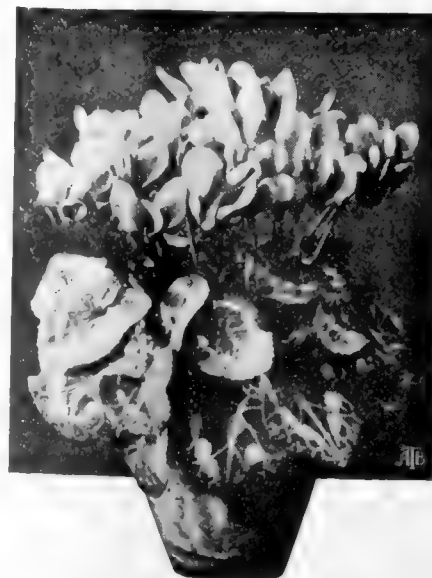
CYCLAMEN BODDINGTON'S GIGANTIC

Our Giant English Strains have arrived—Sow Now

	Tr. pkt.	100 seeds	1000 seeds
Cherry Red	\$0.50	\$1.00	\$9.00
CRIMSON .....	.25	.65	6.00
Crimson and White.....	.50	1.00	9.00
LILAC .....	.25	.65	6.00
PINK. Soft pink.....	.25	.65	6.00
ROSE. Light rose.....	.25	.65	6.00
Snowflake. White .....	.25	.65	6.00
Syringa-Blue .....	.25	.65	6.00
WHITE BUTTERFLY .....	.50	1.00	9.00
Peach Blossom. Intense rose color.....	.25	.75	7.00
Phoenix. Cherry-crimson .....	.50	2.00	18.50
Princess May. Color pink, with suffused blotches of crimson at base of petals.....	.50	1.00	9.00
Purple King .....	.25	.80	7.50
Rose of Marienthal. Soft shell pink.....	.25	.65	6.00
Salmon King. The finest salmon.....	.50	1.00	9.00
SALMON QUEEN. Beautiful salmon.....	.50	1.00	9.00
Salmonium splendens. Fine salmon-pink.....	.25	.80	7.50
Vulcan. Rich crimson .....	.50	2.00	18.50
Wonder (Glory) of Wandsbek. Brilliant, intense salmon red variety .....	.50	1.00	9.00
Mixed .....	.25	.60	5.50

5% DISCOUNT FOR CASH WITH ORDER

Our New Florists' Catalogue containing Selected List of Bulbs and Seasonable Flower Seeds is now ready. Mailed Free.



Boddington's Gigantic Cyclamen

ARTHUR T. BODDINGTON CO., Inc., 128 Chambers St., New York City

FERNS IN FLATS

Eight Best Varieties—200 Clumps to a Flat

\$2.00 per flat; 10 or more flats, \$1.90 each

A. M. DAVENPORT, Watertown, Mass.

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.
WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.
ROOSEVELTS—\$5 per 100, \$40 per 1000.
BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H.H. BARROWS & SON, Whitman, Mass.

**When Writing to Advertisers Kindly
Mention HORTICULTURE**

GERANIUMS

Alphonse Ricard, Beaute Platyne, S. A. Nutt, Gen'l Grant, Mad. Buchner, Mad. Reicher, Jean Oberle, Abbie Schaefer, Mad. Landry, La Favorite, Jean Vland and other kinds, in good 3-inch stock at \$3.00 per 100, \$25.00 per 1000; 2-in., at \$2.00 per 100. We have a large stock on hand for immediate shipment and are booking orders for next season.

BOSTON FERNS, 4 inch, \$1.00 per 100; 7-inch, \$6.00 per doz.; 8-inch, \$1.00 each, \$9.00 per doz. Large plants in 11 and 12 inch pots, \$2.50 and \$5.00 each.

	2-in.	2-in.	3-in.	3-in.
	100	1000	100	1000
ACALPHIA	\$2.00	\$18.50	\$3.00	\$25.00
ALTERNANTHERA	2.00	18.00		
BEGONIA, Vernon	2.00	18.50		
COLEUS	2.00	18.50	3.00	25.00
CUPHEA, Platycentra	2.00	18.50	3.00	25.00
HARDY ENGLISH IVY	2.00	18.50	3.00	25.00
LEMON VERBENAS	2.00	18.50	3.00	25.00

	2-in.	2-in.	3-in.	3-in.
	100	1000	100	1000
LANTANAS	2.00	18.50		
MOONVINES, White and Blue	2.00	18.50	3.00	25.00
PARLOR IVY, S. Scandens	2.00	18.50	3.00	25.00
POMPOON CHRYSANTHEMUMS	2.00	18.50	3.00	25.00
SALVIA, Bonfire and Zurich	2.00	18.50	3.00	25.00
SWAINSONA, White	2.00	18.00	3.00	25.00

CELERY, White Plume, \$1.00 per 1000; 10,000 and over 85 cents per 1000.

FARSLEY, Dwarf Fern leaf; 25c. per 100, \$1.25 per 1000.

CASH WITH ORDER.

R. VINCENT, Jr., & SONS CO.,

**WHITE MARSH,
MD.**

LILY OF THE VALLEY PIPS

Danish and German Stock

**Booking Orders now for
1916 Crop**

LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

CHAS. SCHWAKE & CO., Inc.

Valley

GERMAN, SWEDISH
AND DUTCH PIPS

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....302	Coan, J. J.....295	Gunther Bros.....295	Kroeschell Bros.....303	Park Floral Co.....288	Skidelsky, S. S.
Albany Cut	Cooke, Geo. H.....288	Guttman & Ray-	Kuebler, W. H.....294	Parshelsky Bros.....303	& Co.....287
Flower Ex.....294	Cowee, W. J.....292	nor.....294	Lager & Hurrell.....285	Pelicano, Rossi &	Smith, Elmer D.
Allen, J. K.....295	Craig, Robt. Co.....277	Hail Association.....302	Lange, H. F. A.....289	Co.....289	& Co.....276
American Bulb	Crawbuck, Geo.	Hammond Paint	Leonard Seed Co.....287	Penn the Florist.....289	Smith, P. J.....294
Co.....286	W. Co.....295	& Slug Shot	Loechner & Co.....275	Pennock Meehan	Smith & Fetters.....289
Anderson, S. A.....289	Dards.....288	Works.....301	McHutchison &	Co.....293	Smith, W. & T.
Anglin & Walsh.....285	Davenport, A. M.....274	Hart, Geo. B.....294	Co.....277	Pierce Co., F. O.....303	Nursery Co.....285
Aphine Mfg. Co.....301	Dreer, H. A.....277-302	Henderson, A. &	McManus, Jas.....294	Pierson, A. N.....285	Smyth, Wm. J.....289
Badgley & Bishop,	Dorner, F. &	Co.....287	McConnell, Alex.....288	Pierson, F. R.....277	Stumpp, G. E. M.....288
Inc.....294	Sons Co.....276	Hentz & Nash.....294	MacNiff Horticul-	Poehlmann Bros.	Stumpp & Walter
Barrows & Son.....274	Dunlop, John H.....289	Hess & Swoboda.....289	tural Co.....277	Co.....292	Co.....276
Bayersdorfer, H.	Dysart, R.....276	Hews, A. H. &	Marshall, W. E.	Randall's Flower	Thorburn, J. M.
& Co.....291	Eastern Chemical	Co.....302	& Co.....287	Shop.....288	& Co.....287
Bay State Nur-	Co.....301	Hill, E. G. Co.....292	Metropolitan Ma-	Reed & Keller.....292	Totty, Chas. H., 276
series.....277	Edwards Folding	Hill, D. Nursery	terial Co.....302-303	Riedel & Meyer.....294	Traendly &
Bobbink & At-	Box Co.....292	Co.....277	Michell, H. F.	Reid, Edw.....292	Schenck.....294
kins.....285	Elliot Auction	Hitchings & Co.....304	Co.....287	Reuters.....289	United Cut Flower
Boddington, A. T.....274	Co.....285	Holland Nurser-	Michigan Cut	Robinson, H. M.	Co.....295
Bogliano & Son.....287	Ernest, W. H.....302	ies.....285	Flower Ex.....292	& Co.....295	Valentine, J. A.....288
Breck, J. & Sons.....287	Esler, J. G.....302	Holm & Olson.....288	Millang, Chas.....294	Robinson, H. M.	Vincent, R., Jr.
Breitmeyer's J.	Evans, J. A. Co.....303	Irwin, R. J.....287	Miller, A. L.....285	Co.....294	& Sons Co.....275
Sons.....288	Eyres.....289	Jacobs, S. &	Moninger, J. C.	Roehrs, J. Co.....285	Wants, For Sale.....299
Budlong, J. A.....292	Farguhar, R. &	Sons.....303	Co.....303	Roland, Thomas.....288	Ward, R. M. &
Bunyard, A. T.....288	J. & Co.....287	Kasting, W. F.	Murray, Samuel.....288	Rolker, A. &	Co.....278
Burnett Bros.....286	Foley Mfg. Co.....303	Co.....292	Nave, Paul de.....285	Sons.....277	Weber, F. C.....289
Burpee, W. A. &	Ford, W. P.....294	Keller, J. B.	Nicotine Mfg.	Rosery, The.....288	Weiss, Herman.....292
Co.....286	Ford, M. C.....294	Sons.....288	Co.....301	Schelling, Max.....288	Welch's.....292
Carnation Support	Froment, H. E.....294	Kelway & Son.....286	Niessen, Leo Co.....292	Schwake, Chas.	Welch Bros. Co.....292
Co.....276-277	Galvin, Thos. F.....289	Kerr, the Florist.....289	Nut Grower.....299	Co.....275	Welch, Patrick.....295
Carter's Tested	Gasser Co., J. M.....289	Kervan Co.....294	Ouwkerk, P.....285	Sharp, Partridge	Wood Bros.....276
Seeds, Inc.....286	Graham, Adam &	King Construc-	Palisades, Nur-	& Co.....303	Woodrow & Mar-
Child's, John	Son.....289	tion Co.....302	series.....285	Sheridan, W. F.....294	ketos.....292
Lewis.....276	Grey, Thos. J.	Knoble Bros.....289	Palmer, W. J. &	Siebrecht, Geo. C.....294	Young, John &
Clarke's D., Sons.....288	Co.....287	Kramer, F. H.....289	Son.....289	Schroett, W. R.....294	Co.....294
Clucas, R. W.....285	Gude Bros. Co.....288			Siggers & Sig-	Young & Nugent.....288
				gers.....303	Zvolanek, Ant C.....287

**FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 296, 297, 298, 299**

Early Flowering LONG SEASON Spencer Sweet Peas

for Winter Flowering Under Glass

Since the introduction of Yarrawa Spencer Sweet Peas, great effort has been made on the part of California and Australian growers to produce Early-flowering Spencer Sweet Peas. We offer a list of varieties by one of the most prominent Californian and one of the most prominent Australian growers. One of their chief characteristics is their long season, period of blooming, frequently remaining in bloom for four months. Every one of the crosses were made from the old Early-flowering or Christmas Grandiflora types on the late or Standard Spencers as parents. We feel that there will be little demand for the common or Grandiflora Winter-flowering Type and have, therefore, decided to discontinue offering the same.

Californian Varieties Ready for Delivery August—September

EARLY MORNING STAR

The color is a deep orange scarlet or flame color in standard, with rich, orange-pink wings. The flower is practically the same color as the Late-flowering Spencer Thomas Stevenson. It does not burn out in the open and under glass will be magnificent. The flowers are large and of best Spencer form, and borne in threes and fours in wonderful profusion. Pkt., 15 seeds, 25c.; ¼ oz., \$1.50; oz., \$5.00.

EARLY SNOWFLAKE

This is one of the best Early-flowering White-seeded White Spencers. The blossoms are very large and of the best waved Spencer form. The flowers are borne in wonderful profusion on long stems. The form is every bit as good as White Spencer. Pkt., 15 seeds, 25c.; ¼ oz., \$1.50; oz., \$5.00.

EARLY SPRING MAID

Those who are familiar with the Late-flowering Spencer Mrs. Hugh Dickson, will have a good idea of what a handsome variety this is. The color is a light pink on a cream ground, and the blossoms have the same splendid characteristics of Mrs. Hugh Dickson for a florists' flower. It is a most effective flower and, like our other Early-flowering Spencers, it carries a great wealth of blossoms borne in fours on long stems. There is no Early Spencer Cream Pink which is as attractive as Early Spring Maid. Pkt., 25 seeds, 25c.; ¼ oz., \$1.25; oz., \$4.00.

EARLY MELODY

This is a deeper shade of pink than Early Song Bird on white ground, closely resembling Countess Spencer and near Hercules. It might be described as rose pink on white ground. The effect, when bunched, is most pleasing. It is very floriferous. The flowers are borne on long stems and mostly four large, well waved blossoms to each stem. Pkt., 25 seeds, 25c.; ¼ oz., \$1.25; oz., \$4.00.

EARLY SONG BIRD

The flower is the same color as Florence Morse Spencer and Lady Evelyn Eyre, and a bit lighter than Elfrida Pearson. It has the same excellent form and features of Mrs. Hugh Dickson, but is on a white ground. The placement of the flowers is splendid for packing and the flowers are borne on long stems in threes and fours. When in full growth it seemed as though every stem carries four large blossoms. Pkt., 25 seeds, 25c.; ¼ oz., \$1.25; oz., \$4.00.

EARLY HEATHER BELL

This will be one of the most popular shades with all florists, as it will be useful for making up for any occasion. It is a little like the variety known as Anita Wehrman, but vastly superior in every way. The flowers are very large, borne in fours and threes on long, stout stems, and are of beautiful, bold Spencer form. The color is a rich but pleasing mauve, but after standing in water the color becomes a beautiful mauve lavender. Pkt., 25 seeds, 25c.; ¼ oz., \$1.50; oz., \$5.00.

Australian Varieties Ready for Delivery NOW

CONCORD STRAIN

Pkt., 18 seeds each of any of the following varieties, 35c.; 5 pkts., \$1.50

CONCORD PINK. A beautiful, new variety of a most attractive shade of delicate pink. The flowers are large and of true Spencer form. The stems, which are long and strong, usually carry 3 large flowers.

CONCORD CRIMSON. A variety of great merit on account of its glowing color. It is a rich crimson; the flowers, of true Spencer form, are borne on strong, stiff stems.

CONCORD LAVENDER. Without a doubt this is the finest of all Lavender Winter-flowering Sweet Peas. The color is a beautiful shade of rich, rosy lavender. The flowers are of true Spencer form.

CONCORD WHITE. A splendid, pure white variety of wonderful vigor and

substance. The flowers are pure white and of ideal Spencer form, borne three and four to the stem.

CONCORD SALMON. A rich shade of salmon pink and very free flowering. The flowers are borne three and four to a stem and are of true Spencer form.

CONCORD BLUE. This magnificent variety is of a beautiful sky-blue color, sometimes varying darker, the variation, however, being slight. Quite the finest sky-blue we know of.

CONCORD PURPLE. A leader in its color. When first opening, a delightful shade of mauve purple, changing, as the flower ages, to purple blue. The flowers are of ideal Spencer form and quite large.

YARRAWA

The finest Rose Pink Winter Flowering Spencer; the ideal florist variety. Pkt., 15c.; ¼ oz., 35c.; ½ oz., 60c.; oz., \$1.00; ¼ lb., \$3.25; lb., \$12.00.

PLACE YOUR ORDERS NOW

Stump & Walter Co

30-32 BARCLAY STREET

Dept. C.

NEW YORK CITY

OUR EXHIBIT OF GERMAN IRIS

Won FIRST PRIZE at the
International Garden Club, Summer Show, Pelham Manor
June 1-4, 1916

JOHN LEWIS CHILDS, INC.,
FLOWERFIELD L. I., N. Y.

CARNATIONS

Field Grown

ENCHANTRESS SUPREME. EUREKA
WHITE WONDER. PINK DELIGHT.

\$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL,
MATCHLESS,

\$7.00 per 100; \$55.00 per 1000.

LADY NORTHCLIFF, PINK WINSOR,
WHITE WINSOR.

\$6.00 per 100; \$50.00 per 1000.

WOOD BROS., FISHKILL,
N. Y.

PLEASE

Send us a post card giving the number of Carnations you grow in a short row, crosswise of the bench, and we will send you our Improved Continuous Ring Supports for 100 plants, free of charge. Be sure and state the number of plants in a row, as we furnish as many rings in each connected strand as the grower has Carnations crosswise of his bench.

These Carnation Supports overcome the objectionable features of all other makes.

THE CARNATION SUPPORT CO.
Connersville, Ind. ■

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ELMER D. SMITH & CO. CHRYSANTHEMUMS

Ask for Catalogue

ADRIAN, - - - MICH.

CHARLES H. TOTTY
CHRYSANTHEMUMS
MADISON, N. J.

ROBERT DYSART
CERTIFIED PUBLIC ACCOUNTANT
Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED.
40 STATE ST. - - - BOSTON
Telephone Main 58.

The Glory Fern (*Adiantum Farleyense Gloriosa*)

Adiantum Farleyense Gloriosa

THE GLORY FERN or RUHM VON MORDRECHT

This splendid Fern which so closely resembles *Adiantum Farleyense* in appearance and which does not require the special skill and care in growing that is necessary to produce good plants of *A. Farleyense*, has quickly made a place for itself not only on account of the fact that it can be produced for little over half that of growing *Farleyense*, but also because either in a cut state or as plants used in decorative work, it will outlast the old variety ten to one, making it an available subject where *Farleyense* can not be used at all. Since its introduction some 5 or 6 years ago there has never been a supply large enough to meet the demand. With this in mind we have prepared this season an extra large stock, which is in prime condition and we now offer select

3 inch pots, \$2.00 per doz.; \$15.00 per 100; \$140.00 per 1000

4 inch pots, \$3.50 per doz.; \$25.00 per 100

For a Complete list of seasonable stock see our current Wholesale List.

The above offer is intended for the trade only.

HENRY A. DREER

714-716 Chestnut Street, PHILADELPHIA, PA.

HOLLAND GROWN BULBS

HYACINTHS, TULIPS, NARCISSUS, ROSE BUSHES, ETC.

Write for information about the *Mammoth Auction Sales* that we will hold during the coming Fall Season, of Holland's latest and choicest varieties

THE MacNIFF HORTICULTURAL COMPANY

52, 54 and 56 Vesey Street The Largest Horticultural Auction Rooms in the World NEW YORK CITY

LILY BULBS

Fall Shipment from Japan

Prices quoted F.O.B. New York, Chicago, Denver, San Francisco and London (Ont.)

Write for quotations stating quantity, variety and size required.

McHUTCHISON & CO. The Import House
95 Chambers St., New York

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, - N. Y.

Gielen Nurseries

OUDENBOSCH, HOLLAND

Examine their interesting new Trade List just mailed, with low offers in CONIFEROUS EVERGREENS; FOREST and ORNAMENTAL Trees and Shrubs; HARDY small Evergreens for Window or Porch; hardy ROSES, Bush and Tree Form; all fall delivery. If catalogue not received, apply to the American agents,

AUGUST RÖLKER & SONS, 51 BARCLAY STREET, New York
or P. O. BOX 752

TREES

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties. Sturdy, choice stock that can be depended upon. Send for catalogue and special trade prices.

The Bay State Nurseries

North Abington
Mass.

SHRUBS

This New England soil and climate produces fine sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate.

In Stock ROSE STAKES

EXTRA STIFF No. 9 GALV. WIRE
4 feet—\$11.90 per 1000.

CARNATION SUPPORTS

\$18.00 per 1000 plants.

THE CARNATION SUPPORT CO., Connorsville, Ind.

HILL'S EVERGREENS

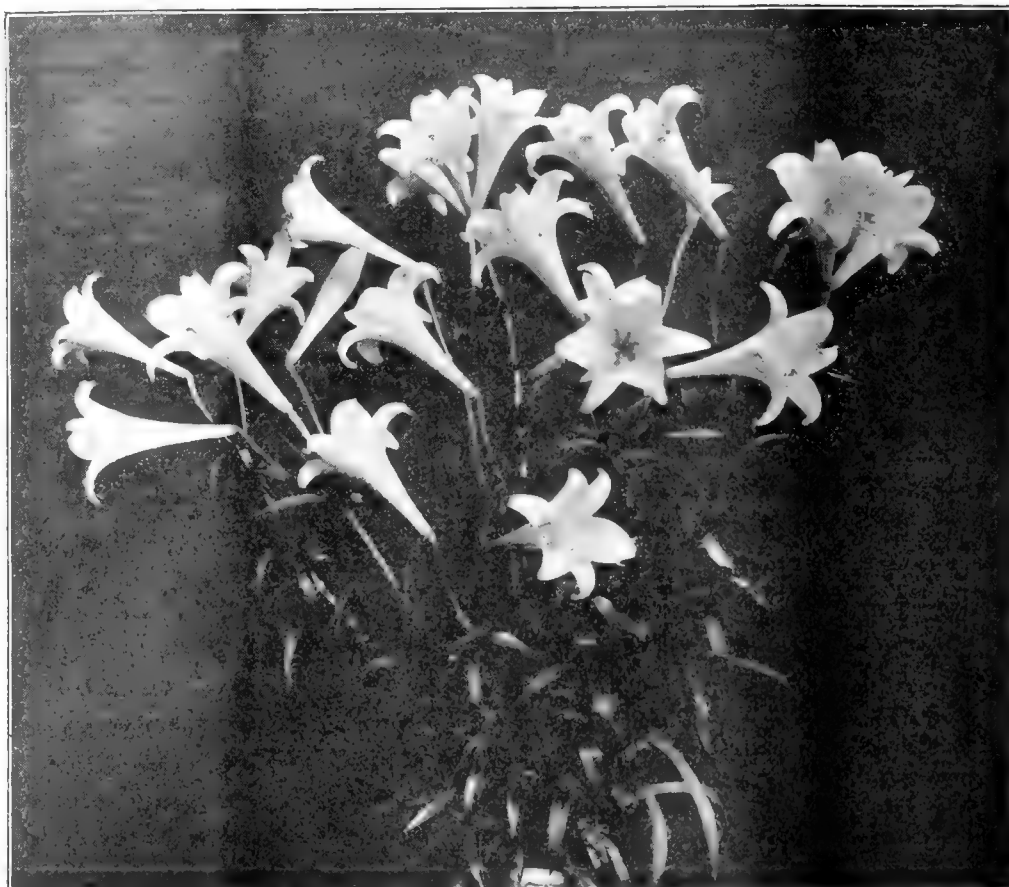
BEST FOR OVER HALF A CENTURY.
Small, medium and large sizes supplied.
Price list now ready.

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers in America.
BOX 418, DUNDEE, ILL.

When writing to Advertisers kindly mention Horticulture

FOR IMMEDIATE SHIPMENT



LILIUM HARRISHII

7x9.....\$9 per 100; \$17 per case of 200 | 9x11.....\$12 per 50; \$20 per case of 100

LILIUM FORMOSUM

6x8.....\$5 per 100; \$15 per case of 350	9x10.....\$10 per 100; \$16 per case of 160
7x8.....6 " 100; 15 " 220	9x11.....11 " 100; 18 " 150
7x9.....7 " 100; 17 " 270	10x11.....12 " 100; 16 " 140
8x9.....8 " 100; 17 " 260	11x13.....15 " 95
8x10.....9 " 100; 17 " 190	

PAPER WHITE GRANDIFLORA

First Size.....\$6 per 500; \$12.50 per case of 1,250
Extra " 8 " 500; 15.00 " 1,000

ROMAN HYACINTHS

Size 12 and over.....\$14.50 per case of 500
" " 27.00 " 1,000
" " 52.00 " 2,000

FREESIAS

Mammoths\$16 per 1,000
First Size.....12 " 1,000
Second Size.....10 " 1,000

COLD STORAGE GIGANTEUM

Size 7x 9.....\$10 per case of 100 bulbs
Size 8x10.....15 " 100 "

FRESH GIGANTEUM

(Due October)

ORDER NOW—Get deliveries through us from the following cities in size 7 x 9 at \$15.00 per case of 300 bulbs—the finest lily bulbs produced:

NEW YORK
PHILADELPHIA
CINCINNATI

MINNEAPOLIS
GRAND RAPIDS
CHICAGO

BOSTON
PITTSBURG
GALVESTON

SAN FRANCISCO
TORONTO
BUFFALO

NASHVILLE
OMAHA
VANCOUVER

All other sizes at the right prices f. o. b. New York City. Write Us.

RALPH M. WARD & CO.

THE LILY HOUSE

EUROPEAN OFFICE
Boompje 82, Rotterdam

71-73 Murray St., New York

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—*Lope*.

Bouvardias

These can be lifted before they get any sharp frost, and may be stored in flats of soil for stock, or they can if desired, be planted in the bench of a warm house where they will give a fine crop in February and March. If taken up with a little ball of damp earth, they will lift quite well. If all earth is shaken away, they will wilt badly and be slow in recovering. Shade for a few days after lifting and the plants in pots will establish themselves more quickly under glass than outdoors. 60 degrees at night will grow them along all right. These onetime prime favorites are not grown as they once were. Like many other plants, they have had their ups and downs and a turn of the tide in their favor will soon be back again.

Carnations

Look over the beds every day and water where they show dryness. Keep on ventilating all day and even at night. If healthy field-grown plants have been housed make it a point to keep them so; get a bench full of live stock and busy tops by the middle of October. If there should be a little let-up in the rush you couldn't take better advantage of it than to get the supports put in place for the carnations. Which is the best kind to use? The kind which in your judgment will hold the plants up well, make the cutting of flowers an easy matter and will let the sun and air into the rows. The winter months are not the time to attempt to get a stunted plant into condition, so keep them growing now.

Giganteum Lilies

Make it a point to get these lilies as soon as possible and pot them without delay. Easter comes on April 8th next year. Give them a rich bulb compost and use either 6 or 7-inch pots. After they are potted place them outdoors in a cold frame. Cover the pots with 5 or 6 inches of soil and if we have very heavy rains give them some protection as they do not like to be saturated. They will make enough roots by the middle of December to be brought in and placed on a bench in a temperature of about 50 degrees at night. The bulbs can be potted any time during October and will come in all right, but of course, the earlier they can be potted the better. Mix up the compost now and place it under cover and see that you have enough pots.

Miltonias

These plants should not be allowed to become dry in their growing season and, even when at rest, they should never remain dry for any length of time. Syringing is

Next week - *Ardisia crenulata*; Pansies for Winter Flowering; *Pompon Dahlias* for Christmas; *Schizanthus Wistoneusis*; *Swainsona*; Reminders.

necessary at all seasons, for this group is a subject for thrips. *Miltonia flavescens* and *spectabilis* do better when suspended from the roof in baskets or pans. One of the most beautiful of *Miltonias* is *M. vexillaria*. It does very well in a house with a northern exposure. It will not stand a close stuffy atmosphere. Always have a constant circulation of top and bottom air on when possible. A winter temperature of 55 to 60 degrees seems to suit well. This species should be more widely grown commercially as it is unexcelled for table decorations. Botanically, *Miltonia* is closely allied to *Odontoglossum*, but in many ways their culture is very different. The allied species, *Miltonias candida* and *cuneata*, do well in liberally drained pans or pots. A good compost for these is rough chopped sphagnum and fibrous peat, with quite a few pieces of broken charcoal mixed very thoroughly. Water so as to keep them in a nice moist state at the roots.

Transplanting Large Palms

One should not wait until the roots, assisted by the decaying wood, have eaten their way through the crumbling wood. With a properly rigged tackle the plant is raised, the new tub placed under it, the plant let down into it, worked about until it is exactly in the center, straight up and down and just right as to the depth in the box, and now the new soil is rammed into the remaining space all around, after which a thorough soaking will complete the job. When repotting large palms, make the compost rich; say to three of chopped sod use one part of well decayed manure, and about a five-inch pot of bone meal to every barrow load of soil. Keep the palms clean by examining them every ten days and, when needed, giving a thorough cleaning to prevent insects from gaining a foothold. When very large plants must be transplanted the work is usually put off until September, this being considered the best time for all such operations. When potted give them a place where they can be kept somewhat close for a week or two.

Reminders

Propagate and transplant peonies now, and when planted mulch the soil with half decayed manure.

Seedling primulas, cinerarias, calceolarias, etc., should be kept quite cool with ample ventilation at all times.

After being lifted from the outside and potted, plants must be kept lightly shaded and sprayed until they are re-established.

Allow crinums and other bulbous stock to finish their growth before lifting. They will then keep dormant longer in the spring.

Pompon Dahlias for Christmas; *Schizanthus Wistoneusis*; *Swainsona*; Reminders.

BOOM YOUR BUSINESS

by advertising your goods in the

Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

HORTICULTURE

VOL. XXIV

AUGUST 26, 1916

NO. 9

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 147 Summer Street, Boston, Mass.

Telephone, Oxford 292.
 WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Hedge of <i>Thuya occidentalis</i> .	
NOTES ON CULTURE OF FLORISTS' STOCK—Bouvardias—Carnations—Giganteum Lilies—Miltonias—Transplanting Large Palms—Reminders— <i>John J. M. Farrell</i>	279
ROSE GROWING UNDER GLASS—Mulching Early Planted Benches—Supplies and Coal—Tying—Liming the Benches— <i>Arthur C. Ruzicka</i>	281
SOCIETY OF AMERICAN FLORISTS—Report of Convention Completed—Closing Session—Report of Committee on President's Address—Report of Judges, Trade Exhibits and Convention Garden—Election of Officers—Memorial and Final Resolutions—Report of National Flower Show Committee.....	282-286
Luncheon with Houston Rotary Club.....	302
SEED TRADE—One Week's Imports—Notes.....	286
OF INTEREST TO RETAIL FLORISTS:	
Florists' Telegraph Delivery Association—New Flower Stores.....	288
Flowers by Telegraph.....	299
NEWPORT SUMMER SHOW.....	290
NEWS ITEMS FROM EVERYWHERE:	
Chicago, Washington, Pittsburgh, St. Louis.....	291
New York, Boston.....	295
FLOWER MARKET REPORTS:	
Boston, Chicago, New York, Pittsburgh, St. Louis, Washington.....	293
OBITUARY—Mrs. James M. Thorburn.....	295
CLUBS AND SOCIETIES—Chrysanthemum Society of America—Lancaster County Florists' Club—Coming Exhibitions—Sewickley Horticultural Society—Ladies' Society of American Florists—Florists are Invited to Cleveland—Gladiolus Society of Ohio—The "International" for 1917.....	300-301
DURING RECESS—Albany Florists' Club, Thomas Tracey, portrait—Connecticut Nurserymen's Association.....	301
MISCELLANEOUS:	
News Notes.....	288
Refreshing Dahlia Blooms— <i>A. J. Fish</i>	290
Hedge of <i>Thuya occidentalis</i>	290
Dahlia Mrs. Alfred I. Dupont—Illustrated.....	290
Publication Received.....	293
Visitors' Register.....	295
Greenhouses Building or Contemplated.....	302
Personal—Patents Granted.....	302

An anomaly Now that the time is approaching for advance prize schedule framing we would call attention to the rather inconsistent fact that in the Garden Club exhibitions and other affairs in which select society ladies figure influentially much more attention is given to the matter of flower

arrangement and the perfecting of floral color combinations for decorative purposes than at those shows that are more or less exclusively under the jurisdiction of the professional people whose well-being must in the final reckoning so largely depend upon the status of this phase of floricultural industry. Flower arrangement is the extreme fine art of flora handicraft, and it is indeed a singular anomaly that in a flower show intended for the public eye this truth should be so generally disregarded.

A big undertaking

We publish in full the itemized report of the chairman of the National Flower Show Committee showing in detail the complete financial transactions connected with the Fourth National Flower Show at Philadelphia. There is much more in this report than the mere array of figures although we are quite sure the number and size of the items given will be a surprising revelation to the majority of our readers. In no other way can so clear an idea be gathered of what it means to successfully carry through a National Flower Show as by a careful perusal of this report of the committee which so creditably fulfilled the heavy duties which had been entrusted to them. As a chart for those who may be ambitious to emulate the Philadelphia exploit and "go it one better" if possible, Mr. Asmus' document will be invaluable. It will not be out of place to suggest here that the Society cannot expect to enjoy perpetually the amount of gratuitous work which has been done so unselfishly hitherto by devoted members at much personal sacrifice. The National Flower Show has come to stay, unquestionably, and all the necessary machinery for its orderly and systematic management must be installed and perfected as rapidly as possible, and all on a strictly business basis.

A situation and a forecast

With china asters of very inferior quality wholesaling at a price approaching winter quotations on carnations, five to ten dollars per hundred asked for lily of the valley, and cattleyas held at a dollar to a dollar and a half per flower the summer of 1916 has certainly developed some most unusual conditions in the flower market. The foregoing refers especially to the situation in New York city, but other centres have been going through experiences not dissimilar. The present week sees the incoming of the second and better crop of asters and the pinch, so far as asters are concerned, is probably at an end for the present. Growers having anything to offer in the cut flower line during the last few weeks have had good reason to feel elated and as a direct result we may expect to see production overdone in the summer of 1917. Then the man who leads in the quality of his product will be the only one having "a ghost of a chance," for the peculiar circumstances operating this year are not likely to be paralleled for a long time to come. It is sad to see some of the trashy stuff that is sent to the city flower markets with the expectation that it will find a purchaser. Making due allowance for the attacks of disease and insects and the vagaries of the weather, it remains that inefficiency and inexcusable carelessness are very largely responsible for most of the rubbish that encumbers the tables of the wholesale dealers. Starting with bulbs of equal grade one grower's gladiolus spikes will command a ready sale at from four to six cents while those from his neighbor lie around without a taker at one dollar a hundred or less. It is plain that the latter doesn't know or doesn't care and this class we shall have always with us. "Tis true 'tis pity; and pity 'tis 'tis true."

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Mulching Early Planted Beauties

Beauties that were planted early will have to be mulched now to protect the roots from the hot rays of the sun, and to give the plants plenty of plant food, as it will be necessary to keep the soil rich all the time to insure their growing properly. When the growth is above the top wire, there has been a crop or two cut off, and with the growth that is on the plants it has made quite a heap of stem, bud and foliage that came out of the soil. The best time to apply the manure is when the plants are starting for another crop and the new growth is about half-grown. Some growers claim that mulching will check the plants for at least a week, but we have never seen any ill effects from mulching when it was done properly. The manure should be well decayed and should have been turned over at least once a week for several weeks prior to applying it to the benches. Before the manure is applied it is well to go over the plants and clean them well, picking off all broken and dead leaves as well as all the leaves on the bottom that would touch the manure when it is applied. Then a good top dressing of bonemeal should be applied and rubbed into the soil gently. Do not allow the men to scratch the benches over when they clean them or when the bonemeal is being rubbed in. By no means allow them to use scratchers made of steel as they are sure to go too deep with them and destroy any number of real nice roots that the plants need very badly. It is best not to apply too much manure at one time, and then if it should be necessary apply a little more later on. It should be watered as soon as it is applied, which will take out any heat that may be in it, and at the same time wash most of the ammonia into the soil where the roots will get it. If the benches are not watered right after mulching the plants are likely to be burned. Needless to say, plenty of air should be carried and never should the house be closed tight after mulching. Later when the weather is cold a crack of air can be carried, which will be sufficient to carry away any fumes that may come from the manure. This applies to narrow houses, but the wide houses will require about three inches of air at least.

Supplies and Coal

It is quite some time ago that we recommended getting plenty of all supplies on hand, and now with the railroads being threatened by strikes all over the country we mention it again. We hope the railroads will not be tied up but no one can tell. It takes quite some time now to get anything as everything is crowded full and freight moves slowly. Order the supplies now so that there will be plenty of time for them to come before they are needed.

Tying

When tying be careful to see that the plants are not bunched up too much, as it is early in the season and the plants would lose a lot of leaves and come to harm that way. In "stringing" to wires see that the knot used to tie around the growth is free and loose so that there will be no danger from choking as the plant grows and the shoots increase in thickness. To put one string around a plant to tie in all growth is far from proper. Each shoot should be tied separately and down between the first and second eye. If this is done right all over it will be a great help while cutting later on and there will be less roses cut wrong and the cutting can be done in far less time, as the string will serve as a guide. See that the stakes are tied so that they will not slide when the plants are syringed later in the season. White cord should be used for this purpose and the knots well tied so that the stakes will not move. While the plants are being staked, see that the stakes are all put in on the same side of the plant so that they will be in rows, same as the plants should be. With a little care this can be accomplished very quickly and the work will look like something when it is all done.

Liming the Benches

As soon as the soil begins to turn green badly in spite of frequent stirring and care in watering it is a sure sign that the soil is sour and lime will have to be used. If any acid phosphate was added to the soil at planting time the lime should not be applied unless absolutely necessary, as the lime will kill the acid phosphate and render it worthless as plant food. With no phosphate in the soil it will be an easy matter to apply a dose of lime, which should be air-slacked lime or hydrated lime. If the former, see that it is fresh, but cool, as hot lime should not be applied. It is not a very pleasant task at best and hot lime will make it much worse. It will not be necessary to apply a very heavy dose, just enough to whiten the surface of the soil nicely. This can be rubbed around a little bit after which the plants can be watered. To save the hands it may be better to scratch the benches over just very lightly before the lime is applied, after which the plants can be watered without another rubbing over. The lime eats into all scratches very rapidly and where there is quite a little of the work to do it will be best to rub the benches over before the lime is applied. If the soil shows acid at all it will be best to apply the lime while the plants are still small, so that it will be safe to work the soil over and there will be very little danger of disturbing the roots.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

Report of the Convention Completed

Our report last week brought the story of the Convention proceedings up to the time of adjournment on Wednesday, August 16.

Closing Session, Thursday Morning, Aug. 17.

At the hour of ten o'clock Thursday morning, Aug. 17, President MacRorie, after calling the convention to order, announced that the polls were now open for casting of ballots for election of officers. Secretary Young announced the tellers of election and President MacRorie announced the names of sundry committees on Memorials to deceased members and on final resolutions:

The report of the Committee on President's Address was then read by its chairman, W. F. Gude.

Report of Committee on President's Address.

Your Committee to whom was referred the several recommendations in the address of President Daniel MacRorie, respectfully report as follows:

With reference to holding our convention on concurrent dates with the National Flower Shows as recommended by the President, your committee, having given the subject careful consideration, is of the opinion that no specific recommendation is required from this committee, inasmuch as this suggestion has been acted on practically by the convention in selecting St. Louis for the convention city for 1918, the National Flower Show Committee having already selected said city for the National Flower Show the same year, and it is probably the intention of the Executive Board to call the Convention on dates in conjunction with the National Flower Show, they having, under the amendments as adopted, the power to change dates of the Convention as conditions may demand. This will try out the new idea in actual practice at that time.

The President's address contains a warm endorsement of the idea of children's gardens, and your committee highly commend his remarks in connection therewith, and would recommend concurrence in his recommendation that this society give its fullest support toward the promotion of school gardens as a potent influence for moral uplift and esthetic development of the whole people. We deem it also the duty of individual florists, whether affiliated with organizations or not, to also encourage this movement which has now received such a strong impetus in this country.

Referring to that part of his address wherein the President concurs in the views of his various predecessors who have supported the idea of convention gardens, your committee fully recognize the educative influence and uplift of the convention gardens and not only do we believe that this influence is felt in every city where such gardens have been established and will be so felt in the future, but where these gardens afterwards crystallize into permanent features, as it is not impossible in many cases that they will, the effect becomes a permanent and lasting one that does not expire with the occasion. Nevertheless your committee, while sensible of the truth of this proposition and rejoicing in what has been accomplished, believe that tact must be used in this as in all matters that require co-operation, and therefore if in some cases it is found that in order to have a convention garden too many other equally valuable matters must be sacrificed, in such case the idea might be relaxed a little rather than be strained to the breaking point; and therefore we believe that the convention gardens ought to be encouraged wherever feasible in the locality where we assemble if not too great a burden on the society inviting us.

The idea always should be, the Garden for the Society rather than the Society for the Garden.

In regard to the recommendations of the President as to a permanent secretary, the experience of the largest and best organizations in this country has been along the idea of retaining in office a competent secretary so long as he continues to serve acceptably, as absolutely necessary to the proper conduct of the association affairs; and we believe that such a man should be retained under conditions that would permit him to give full time and attention to the duties of his office; and it is to be desired that the governing body will be able to work out this problem satisfactorily in the very near future.

With regard to the recommendation by the President with reference to "Mother's Day" being permanently fostered and protected, we understand this to mean that the President wishes to see the work carried on thoroughly and efficiently rather than spasmodically and inefficiently, and that it be in the hands of a permanent committee from our own organization who could best enlist the support of our membership. We heartily endorse this idea and would further suggest that the committee, if made permanent, be

also given charge of looking after the proper observance of any similar days that may hereafter be established.

President MacRorie is moved to make most feeling mention of the decrease during the past year of one of the beloved members of this society, he who was known and universally esteemed, our late Treasurer, William F. Kasting. Your committee feel that they but voice the universal feeling when they suggest that a committee be named by the President to prepare a suitable memorial in the form of engrossed resolutions commemorating the work of Mr. Kasting and expressive of our sense of bereavement in his taking away.

In conclusion, we beg to add our word of appreciation of the evident desire of President MacRorie to contribute the best that is in him to the advancement of the aims and objects of this Society, and we not only commend his suggestions but admire the broad and catholic spirit in which he has treated the problems that confronted him during his administration, and the national view-point that he has manifested.

W. F. Gude, Chairman, E. G. Hill, Frank Stuppy, J. A. Peterson, George Asmus, Committee.

On motion of R. C. Kerr, above report was adopted as read, and the recommendations concurred in. Secretary Young read the Report of Judges of Trade Exhibits as follows:

Report of the Judges of the Trade Exhibits.

American Bulb Company, Chicago, Ill., decorative tritinate novelties, Certificate of Merit; the balance of this exhibit awarded Honorable Mention.

A. L. Randall Company, Chicago, Ill., exhibit of novelties and accessories for retail florists' use, Highly Commended.

M. Rice Company, Philadelphia, Pa., exhibit of florists' baskets and accessories, Honorable Mention.

Gullett & Son, Lincoln, Ill., display of foliage and flowering plants, Honorable Mention.

H. C. Doescher, New Orleans, La., exhibit of 32 distinct types of Nephrolepis, same being magnificently grown, Certificate of Merit.

American Bulb Company, Chicago, Ill., display of baskets for retail florists' use, Honorable Mention.

American Bulb Company, Chicago, Ill., collapsible folding canopy, for decorating purposes, Honorable Mention.

Lord & Burnham Co., Irvington, N. Y., an exhibit of improved sectional iron frame greenhouse, of curved glass eaves design, 11 ft. by 16 ft., 8 in., complete with iron and tile plant benches, wiring frames, etc., Certificate of Merit.

Darlice Florist, San Francisco, Cal., cut Chrysanthemums and other flowers, Certificate of Merit.

Advance Company, Richmond, Ind., new

expansion joint and scale trap, Certificate of Merit.

H. C. Doescher, New Orleans, La., home grown Lily Bulbs; committee recommends that the exhibitor be encouraged to continue the growing of these lilies as the same appear to be very successful in healthy condition, showing that the bulbs may be grown satisfactorily at a price.

Cottage Garden Nurseries Company, Eureka, Calif., exhibit of Pacific Coast grown Holland Bulbs. These bulbs are a very high quality and thoroughly ripened. Certificate of Merit.

Magnolia Nursery, New Orleans, La., eight Phoenix Robeleni, Honorable Mention.

Cohen & Hiller, New York, ribbons and novelty accessories, Honorable Mention.

H. Bayersdorfer & Co., Philadelphia, Pa., baskets and accessories for retail florists' use, Honorable Mention.

O. E. Falls, Kansas City, Mo., literature and material for use of retail florists, Certificate of Merit.

Burlington Willow Ware Shop, Burlington, Iowa, willow ware baskets, Honorable Mention.

Poehlmann Bros. Co., Morton Grove, Ill., palms and foliage plants, showing very fine commercial cultivation, Highly Commended.

J. A. Peterson, Cincinnati, Ohio., foliage plants of very clean quality, Highly Recommended.

Foley Manufacturing Co., Chicago, Ill., small modern greenhouse, Honorable Mention.

John A. Evans Co., Richmond, Ind., a double clamping of large chain in shafting pipe, also bringing the post in center to equalize the weight on roller bearings; also housing worm gear to protect from dirt and water, Certificate of Merit.

Kroeschell Bros. Co., Chicago, Ill., your committee recommends in view of the many valuable improvements claimed for the new steam boiler that the judging of their exhibit be passed on to a committee of experts at some future exhibition.

(Signed): Wm. F. Gude, E. G. Hill, C. L. Baum, H. A. Chopin, Geo. Asmus, Secretary.

Secretary Young read a communication from R. Mees & Zoonen, bankers and insurance brokers, Rotterdam, Holland, who stated that they were largely interested as brokers in the insurance of bulbs and plants for transit from Holland to the United States, and to facilitate settlement of insurance adjustments, in places where there are no Lloyd's agencies or some like competent authority, they desire to secure co-operation in the way of having representatives of the Society at such points verify claims or assist in verification so that the insurers may more safely carry on business of insuring bulbs, etc., destined here.

E. G. Hill thought this was a very vital matter, and after the matter had been discussed by various members, Mr. Hill moved that the matter of adjustment of claims on bulbs be immediately referred to nearest State Vice-President with power to act, and that he ask assistance from local members in the adjustment and statement to be made to the insurance companies. This was seconded by Mr. George Asmus, who proposed that it be amended so as to provide that no financial obligation would rest upon the Society of American Florists by reason of its co-operation in this manner. The amendment was accepted, and the motion as amended was duly carried.

On further motion by Mr. Asmus the Tariff and Legislative Committee were instructed to look into the legal aspects of this question and report their recommendations to the Executive Board at the next meeting as to the method of procedure that would save the Society harmless and promote the objects sought to be attained

so far as practicable therewith.

Secretary Young read the Report of the Judges of Convention Garden Exhibits, as follows:

Report of Judges of Convention Garden.

To Henry A. Dreer, Water Lily Specialists, Philadelphia, Penn., best exhibit in the entire garden. A Certificate of Merit.

To Conrad & Jones, a Certificate of Merit for the best Pink Canna and Honorable Mention for balance of exhibit, Honorable Mention for size of flowers on the Canna Wintzer's Colossal, Honorable Mention for the color of the foliage of the Canna Juanita.

To Henry A. Dreer, Certificate of Merit for the Canna Eureka as the best White Canna in the Garden, and also Honorable Mention of the Cannas Hungaria, Orange Bedder and Schopenhauer.

To Arthur T. Boddington, New York City, Certificate of Merit for the Canna Boddington's Meteor as the best red Canna in the garden.

To Wm. Tricker & Son, Arlington, N. J., Certificate of Merit for the Nymphaea Gracilis, as best hybrid. Certificate of Merit for the best hardy Nymphaea named Paul Herriot. Honorable Mention of the rest of the exhibit.

To St. Louis Seed Co., Certificate of Merit for best red foliaged Canna.

To Vaughan's Seed Store, Honorable Mention of Canna Firebird.

To Texas Rose Gardens, Rockdale, Texas, Honorable Mention for rose exhibit.

To California Rose Company, Pomona, Calif., Certificate of Merit for rose exhibit. Special mention of the varieties La Detroit, American Beauty and Mlle. Edouard Herriot.

Special Mention of the exhibits of L. H. Read, of Xanthosomas, Carlyle & Sons, Alvin, Texas, Tuberoses; and W. J. & M. S. Vesey, Fort Wayne, for Geraniums.

A Certificate of Merit was awarded to the Park Department for the magnificent bed of Crotons.

Mr. Asmus paid a high tribute to Mr. Brock, Supt. Parks, Houston, for his untiring work in arranging for and looking after the convention garden establishment and conduct, and moved a rising vote of thanks to Mr. Brock, which was carried. Mr. Brock being called on for a speech, responded that he highly appreciated the action taken by the convention, and believed that all had seen and understood the adverse conditions under which the work had been done. He had tried to do his best.

Secretary Young read a communication from Harlan P. Kelsey, Salem, Mass., dated November 17, 1915, asking that a committee on Nomenclature be appointed to cooperate with similar committees of the American Nurserymen's Association, the Ornamental Growers' Association, and the American Seed Trade Association, and on motion of Mr. Young, the appointment of such committee was duly authorized.

Reports by the Entomologist, Dr. Thos. F. Headlee, H. P. Knoble, Chairman, and C. W. Ward of the Committee on Development of American Products, and by George L. Peltier, Pathologist, were on motion considered read and their publication in the Proceedings authorized.

Election of Officers.

The Report of the Tellers of Election was submitted as follows:

Unanimous ballot cast for the election of Robert C. Kerr, Houston, Tex., President; A. L. Miller, Jamaica, L. I., Vice-President; John Young, Secretary; J. J. Hess, Treasurer. For Directors result of vote follows: Total vote, 207, of which there were 45 votes cast for Walter W. Coles, Kokoma, Ind., 89 votes for Frank Stuppy, St. Joseph, Mo., and 73 votes for George W. Hess, Washington, D. C. Messrs.

Stuppy and Hess having received a majority vote were duly elected.

On motion of Mr. De La Mare, the appointment of a committee was authorized to prepare suitable memorials on the deaths of Wm. Tricker and Albert McCullough during the past year. John G. Esler, A. T. De La Mare and J. A. Peterson were named as such Committee.

Memorial Resolutions.

Memorial resolutions on the deaths of William F. Kasting, Edwin Lonsdale, John W. Poehlmann and W. Atlee Burpee were read as follows, members standing during the reading:

William F. Kasting.

"Whom the Gods love die young!" To none can this be more truthfully applied than to William F. Kasting, one time President of this Society of American Florists and for many years its honored Treasurer. Intensely loyal to his friends, with malice in his heart toward no man, outspoken, honest, fearless, he had every quality that might become a man and bind him to his friends with hooks of steel. So frank and sincere was his character, so little there was of any of the lesser frailties of human nature that make for envy, jealousy or spite, that William F. Kasting caused none to envy but all rejoiced in his progress and success.

His affiliations were many; he belonged to a large number of organizations to each of whom he gave his best, and to none more than to the florists whom he loved and whose calling he was always proud to represent. In addition to his honors in the national Society he was President of the New York Federation of Floral Clubs, had served as President of the Buffalo Florists' Club, and was a member of many local florists' clubs in other cities, including New York, Chicago and San Francisco. He was a member of numerous secret and fraternal orders and of many philanthropic and social organizations, including the Rotary Club, the Orpheus and other German singing societies. Rarely it has been said has one man had so many friends in such various conditions of life and activity as this one; rarely has a man of more humble beginnings achieved such high success or risen higher in the respect and esteem of all his associates and neighbors, those who knew him best.

Peace to his fragrant memory. Here let us all drop a flower of memory to him who was our friend and our helper in all that we held dear. He fell asleep and woke, let us fondly hope, in a fairer land.

Signed, George Asmus, August Poehlmann, J. J. Hess, Committee.

Edwin Lonsdale.

In the death of Edwin Lonsdale, of Lompoc, California, the Society of American Florists and Ornamental Horticulturists has lost one of its most valued and tried friends of its earlier days.

Mr. Lonsdale served in the capacity of Secretary and also was President of the Association; and he gave of his time and money without stint. Much of the growth and development which has since taken place in this Society was due to the work of Edwin Lonsdale in no small degree in laying the foundations well. His intelligent help was always forthcoming when the demand arose.

Edwin Lonsdale was gifted by nature with a genial happy disposition, and he was ever ready to give information and cheer to those engaged in floricultural pursuits. He was a great student of plant life, and contributed many valuable articles, not only in regard to the hybridization of plants, but also their care and culture. He was greatly interested in the carnation in its earlier career, and also was an excellent grower of roses. The Society had the services of Mr. Lonsdale upon any and all occasions, and few men belonging to our organization have contributed so much as did Mr. Lonsdale to its advancement.

E. G. Hill, John G. Esler, J. A. Peterson, Committee.

W. Atlee Burpee.

The lives of all men are precious, far more so than we stop to realize, for every man is called into the world to perform

his allotted part toward making this earth better and brighter.

All men may be born free and equal, but it comes about that through environment and development some men become pre-eminently distinguished above their fellows for certain talents, although not necessarily superior in all things.

W. Atlee Burpee was pre-eminently distinguished among men. Possessed of talents in every direction and with ability to make himself famous in whatever avocation he might choose to take up, his wonderful understanding of men, his magnetism with men, individuals if not in the mass; his highest gift of endearing himself to others, will always remain fixed in the memory of those whose good fortune it was to know him. No man was ever better loved by his friends.

For the rest, a highly successful business man of unblemished reputation; a devoted father and husband; a man and a friend whose loss is irreparable; we mourn his death, and spread this brief tribute to his memory in the pages of our Proceedings that all who read may gauge the affection in which we held him while he was living and would hallow his memory now that he has gone.

A. T. De La Mare, Chairman; Joseph Heacock, Frank Stuppy, Committee.

John W. Poehlmann.

John William Poehlmann, president of the Poehlmann Bros. Co., well-known Chicago florists, died at his late residence, 4728 Beacon street, July 14, aged 49 years. He was born in Milwaukee, Wis., of German parentage, and was associated with his father, John George Poehlmann, in the retail grocery trade in that city until 1890, when he and his brothers, Adolph and August, formed a partnership and engaged in the florist business at Morton Grove, Ills.

In the death of Mr. Poehlmann the Society of American Florists has lost one of its most successful members. Starting only a few years ago with very limited means, he was largely instrumental in the development of his firm's splendid business, said to be the largest of its kind in existence. He was a hard worker, constantly at his post, and always kindly to his associates and employees. Mr. Poehlmann's industry has left deep, lasting imprints on the sands of American floriculture and his many friends deeply mourn the early passing of one so gifted and so unassuming.

Signed, Michael Barker, Philip J. Foley, T. J. Wolfe, Henry Berning, Committee.

Secretary Young then read the Report of the Committee on Final Resolutions, as follows:

Final Resolutions.

WHEREAS: The members and guests and ladies in attendance on the Thirty-second Annual Convention of the S. A. F. & O. H. have now for four days enjoyed the hospitality of Houston and its citizens, and have been overwhelmed with kindness and courtesy at every turn; expecting to find the weather warm we have been agreeably disappointed by finding that the friendship of our Houston brethren is as pure as their atmosphere, and their hearts as warm as we had expected to find the weather; our experience being that we have been disappointed in all that we expected to suffer and only surpassed in our expectations by all that is agreeable, now desire to record as best we may our gratitude to those who have so well and pleasantly entertained us; therefore,

RESOLVED: That we tender a special and unanimous rising vote of thanks in commemoration of this occasion to the following: To Rev. W. S. Jacobs, who opened our convention by asking the divine blessing on our deliberations; to Hon. Ben Campbell, Mayor, who so beautifully welcomed us and who taught us new lessons of the ennobling influences of our chosen calling in life; to the City of Houston for its liberality in housing us in the

ample and commodious auditorium where our meetings were held; to the Rice Hotel management and attaches for many courtesies; to the Chamber of Commerce, for elaborate entertainment given us; to the Interurban for special rates for our outing; to the Queen Theater for theater party; to the Houston florists and their efficient committees in charge of convention arrangements; to C. L. Brock, Park Supt., for his arduous labors and untiring work in the matter of the Convention Garden; to the various exhibitors who brought here a trade exhibit of great interest to the trade and to each of us who attended it; to the daily and technical press for full and painstaking reports of our various sessions; and to all who have contributed to our comfort and enjoyment while here.

E. G. Hill, A. T. De La Mare, Frank Stuppy, Committee.

The Convention then adjourned to meet a year hence in New York City.

REPORT OF NATIONAL FLOWER SHOW COMMITTEE.

By George Asmus, Chairman.

Mr. President and Members:

I have the honor to report that the Fourth National Flower Show, held at Philadelphia, March 25 to April 2, was a success from every point of view. It was a success through the influence the Society was able to exert among its local members, through its friends, in the trade and out of it, and through the kindly patronage of the thousands in and around Philadelphia interested in horticulture and floriculture. In comparison with previous shows it showed a great advance in the realization of the possibilities attaching to such a show, your committee not failing to profit by the experiences resulting from the first three shows.

Foremost was the matter of organization, and to the extent of the ability of your committee this was made as perfect as to them seemed possible. It is most gratifying to be able to state that the local bodies established nobly carried out the work assigned to them, working most harmoniously to the common end—success.

Very long before the dates fixed for the show, it was realized that the space afforded by Convention Hall, the only building in Philadelphia considered large enough for our project, was inadequate for our purpose, yet those in charge of the show were not discouraged, and, by the conservative use of discretionary powers, a huge show was housed which entailed little or no friction among the large number of exhibitors in the different sections. In this connection, the thanks of the committee are extended to those exhibitors in our trade section who cheerfully consented to the different changes in location of their exhibits made necessary by construction of space in order that our exhibits in the competitive section might have due prominence.

Unfortunately for us, the laws in force in Philadelphia prevented a public opening of the show on the two Sundays during the show period, and we were not enabled to profit by the large influx of visitors which we are assured would have been in evidence

on those days; although on the second Sunday we were permitted to sell associate members badges at 25c. each, and the gross sale of these badges amounted to \$1217.00. In the arrangement of the hall, its heating and lighting, the committee was confronted by conditions the settlement of which entailed much negotiation, but which resulted to the great advantage of the Society. The minutes of our committee describe these fully, and they need form no part of this report.

This show was financed entirely by the Society, through the guarantee fund provided by those in its membership who were and are confident that the National Flower Show has become an established feature of the work of our Society. It is pleasing to be able to state that those subscribing to this fund have not only been reimbursed, as regards the fifty per cent. call made upon their subscription, but have received a dividend of ten per cent. upon the entire amount subscribed. I would make the suggestion, concurred in by many, that these subscriptions remain as a permanent support to National Flower Shows, under such conditions as the Society may determine upon. This would obviate the necessity of inaugurating a fund for each future show, and thus entailing much unnecessary work upon the part of the committee and its officers.

The thanks of the committee are extended to the subscribers to the guarantee fund, for their endorsement of our work in a pecuniary way, and their willingness to share with the Society the various liabilities attending the promotion of a National Flower Show. In this expression, I am sure the Society as a body will join us.

(Here follows the list of subscribers to the Guarantee Fund):

Without doubt, we go upon record as offering at this show the largest and most valuable premium list ever presented at a horticultural show in America. This we could not have done without the cheerful aid and support of many of our friends in both private and commercial circles. Your committee deeply appreciates the support from these sources, and gratefully acknowledges the various donations.

(Here follows the list of special prizes, including those collected by the American Rose Society, and American Carnation Society):

To one outside the circle of those actually engaged in the work of inaugurating a National Flower Show, the labor involved in the staging of such a show can hardly be realized. While your committee conducts its work as a directing body, much of the detail must be accomplished by the local organization, and, as chairman of your committee, I have felt myself particularly fortunate in having been able to assist in effecting an organization in Philadelphia whose work was a most important factor in the success of the show. I should feel that I were remiss did I not particularize in regard to this work.

To William Kleinheinz, chairman of the committee on exhibits, our thanks are extended for the work performed by his committee in the securing of exhibits in the competitive classes, and for his personal effort in this direction. We are gratefully mindful of the fact that W. F. Therkildson, chairman of the committee on publicity, was instru-

mental in obtaining for us publicity for the show of a very high order and extensive character. Mr. Therkildson's work in this connection is worthy of the Society's highest commendation. The work of Louis Burk, as chairman of the committee on concessions, was most thorough, and the arrangements made by this committee were both admirable and profitable. Robert Craig, as chairman of the committee at large, with his committee, cared for many things without the province of other committees, and helped materially the work of the organization. The committee on lectures, of which J. Otto Thilow was chairman, instituted and directed a program of lectures on horticultural subjects, which was an important and popular feature of the show, and, consequently, a source of much gratification to those interested in the success of the show. Samuel S. Pennock gave unstintingly of his time to attend to his duties as chairman of the committee on printing. Much important work devolved upon the committee on leases, contracts and hall, of which Adolph Farenwald was chairman, all of which was carried out with a zeal much appreciated by our organization. The committee on trade tickets, whose chairman was E. J. Fancourt, gave service which was long and continuous. The work of this committee was most important, and was accomplished in a most skillful manner. Wm. P. Craig, as chairman of the committee on special premiums, was instrumental in the addition of many donations to our list of special prizes. The committee on information was a somewhat new feature of our show organization, and we must congratulate Fred Cowperthwaite, chairman of the committee, on his having proved the necessity for a bureau such as was established, and the good results accomplished. Chas. Henry Fox, chair-

man of the advertising committee, which ultimately merged with the publicity committee, with his committee rendered admirable service in matters concerning the advertising of the show. The committee in charge of decorations, John P. Habermehl, chairman, through the skill displayed in the decorations installed, met thoroughly the expectations of the National Flower Show Committee. The committee on special features, of which Chas. H. Grakelow was chairman, did excellent work. It is to be greatly regretted that some very important features arranged by this committee were, owing to unexpected lack of room, impossible of accomplishment. Franklin Barrett, as chairman of the committee on aquariums, was instrumental in the staging of an aquarium exhibit which was a highly attractive feature of the show. The nursery interests were looked after by the nurserymen's committee, of which Wm. Warner Harper was chairman. The work of this committee was, it is to be regretted, limited by space accommodation. Leo Niessen, chairman of the committee on music, deserves great credit for the musical features provided. Arthur A. Niessen, as secretary of the local executive committee, is also to be congratulated on the successful carrying out of all the detailed work of that office. The National Flower Show Committee are also deeply grateful for the valuable services rendered by Daniel C. Donoghue, one of the leading attorneys of Philadelphia. Mr. Donoghue has a wide acquaintance with the florists of Philadelphia and vicinity, and is greatly interested in the work of all florists. Mr. Donoghue did not render any bill for his services, and our committee would recommend that the Society shows its appreciation of his work by appointing him attorney for the Society.

The details as to receipts from all sources, and the financial report of the show have been published, and each member present should be in possession of a copy of same.

Your committee was fortunate in having the support of the American Rose Society, American Carnation Society, and American Sweet Pea Society, all of whom directed the sections made up of their representative flowers, and added to the premium list of our Society with special prizes donated by members of their own bodies. The cooperation of these societies was greatly appreciated by your committee.

Subsequent to the show, the secretary met the treasurer and myself in Buffalo and went over all the accounts in regard to the show, in detail, and it was found that everything was correct, the accounts of the secretary and treasurer agreeing exactly. A full account as to disbursements, under date and voucher number, will be published in the Annual Report of the Society.

Lectures were given by:

W. N. Rudd, Chicago; Prof. E. A. White, Cornell University; Robert Pyle, West Grove, Pa.; Frank N. Meyer, Dept. of Agriculture, Washington, D. C.; J. Otto Thilow, Philadelphia; J. Horace McFarland, Harrisburg, Pa.; Arthur Cowee, Berlin, N. Y.; Richard Rothe, Glenside, Pa.; Max Schling, New York; Miss Caro Miller, Bureau of Education, Philadelphia; Richard Vincent, Jr., White Marsh, Md.; Miss Elizabeth Leighton Lee, Ambler, Pa.; E. I. Wilde, State College, Pa.

Interesting cultural articles were

OLDEST AUCTION HOUSE IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co.
42 Vesey St., New York

REMEMBER!

If it's a Hardy Perennial or so called Old Fashion Flower worth growing, we have it in one shape and another the year round. We have the largest stock in this country, all made in America, and our prices

will average 75c. per doz., \$5.50 per 100.

Why say more here? Send for our Wholesale Price List of varieties and benefit from the opportunities this affords you. Address

PALISADES NURSERIES, Inc.

R. W. CLUCAS, Manager.

SPARKILL - N. Y.

Large Xmas Peppers

Also BIRD'S EYE PEPPERS

Exceptionally Fine 4 Inch Stock at
\$8.00 per Hundred.

ALSO

ASPARAGUS PLUMOSA

4 in. pots at \$8.00 per Hundred

Extra Fine Stock for Planting Out

A. L. MILLER

JAMAICA, N. Y.

BOBBINK & ATKINS

Nurserymen, Florists
and Planters

RUTHERFORD, NEW JERSEY

Nursery Stock

Fruit and Ornamental Trees, Shrubs,
Small Fruits, Clematis, Evergreens
and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS,
AZALEAS, CONIFERS, CLEMATIS,
H. P. ROSES, SHRUBS AND HER-
BACEOUS PLANTS.

P. OUWERKERK, 216 Jane St. Weehawken Heights
P. O. No. 1, Hoboken N. J.

A. N. Pierson, Inc.
CROMWELL, CONN.

Bedding Plants and Roses

ORCHIDS

CONSERVATORY PLANTS
BEGONIAS

Lorraine, Cincinnati and Mrs. Peterson

JULIUS ROEHRS CO.
Rutherford, N. J.

ORCHIDS

Just received a grand importation of
Lycaste Skinnerii. We also carry a choice
line of established plants at all times.
Write for prices now.

PAUL DE NAVE

ORCHID GROWER.

Tel. Connection. FALL RIVER, MASS.

ORCHIDS

We grow and sell nothing but ORCHIDS.
If you are in the market for this class of
plants we respectfully solicit your inquiries
and orders. Special lists on application.

LAGER & HURRELL, Summit, N. J.

FREESIA PURITY BULBS

Florists' Forcing Size, 1/2 to 5/8 inch

\$7.50 per 1000 High Grade Bulbs

ANGLIN & WALSH CO.

Williamsbridge, N. Y.

contributed for the Official Souvenir Program by the following experts:

Charles Downing Lay, Robert Kift, Adolph Muller, Edwin Jenkins, Charles H. Totty, the late Wm. Tricker, George H. Peterson, J. Otto Thilow, John E. Lager, I. S. Hendrickson, Maurice Fuld, Prof. E. A. White, George C. Thomas, Jr.

The Pennsylvania Horticultural Society cooperated in the work of the exhibition, and had a booth in the exhibition hall for use of their members. The ladies of the Garden Club of Philadelphia and vicinity formed an organization with Mrs. J. Willis Martin, chairman, and conducted a tea garden, all of which assisted very much towards the success of the exhibition.

Financial Report.

GENERAL RECEIPTS.	
Guarantors 50% Subscription.....	\$4,917.50
Rentals and Concessions.....	13,271.11
Signs and Rentals of Stands.....	146.70
Paid Admissions—Exhibition Hall.....	\$21,997.75
Trade and Special Tickets.....	12,117.50
34,115.25	
Sales of Badges Use, Associate Members, Sunday, April 2nd.....	1,217.30
Rent, Spellman's Circus.....	800.00
Rent, Meadowbrook Club (John Wanamaker).....	500.00
Rebate, Unused Badges.....	24.00
Sale, Unused Sod.....	5.00
Advertising in Program.....	2,716.00
Sales of Programs.....	595.16
Sales of Carnations, Miss Anna Jarvis Day.....	54.00
Electric Current used by Exhibitors.....	245.70
Special Cash Prizes offered through S. A. F. & O. H.....	\$2,008.50
Am. Rose Society.....	1,160.00
Am. Carnation Society.....	490.00
3,658.50	
Interest, Phila. Bank, Account Ticket Committee.....	6.94
\$62,273.16	

DISBURSEMENTS.

Advertising Committee.	
Signs.....	\$323.50
Blue Felt Pennants.....	132.44
Buttons.....	6.50
General Expense.....	30.03
Daily Press.....	1,987.65
Animated Advg. Co.....	50.00
\$2,530.12	
Publicity.	
General Publicity.....	\$3,844.17
Expenses, Publicity Committee.....	202.20
\$4,046.37	
Reporting Flower Show Committee	
Meeting, Chicago.....	41.50
Printing and Stationery.....	1,459.48
Drawing Preliminary Floor Plan.....	10.00
Premiums Paid.....	11,498.50
S. S. Pennock, Trustee (L. P. Voller's Premium).....	85.00
Premiums, Aquarium Society.....	235.00
Music.....	1,136.00
Appropriation, Philadelphia Office.....	1,000.00
Rent of Exhibition Hall.....	700.00
Printing and Expense of Program, including Commissions.....	4,605.74
Commission, Selling Space, Trade Section.....	1,286.90
\$21,860.00	
Ticket Committee.	
Rental of Uniforms.....	\$21.00
Doormen, Ticket Takers, etc.....	283.00
Clerical Assistance.....	84.00
Incidentals.....	6.00
Alfred Burton, car fares.....	10.00
Mark P. Mills, expenses.....	9.60
Signs.....	4.30
Printing Tickets.....	315.13
\$733.03	
Lease and Hall Committee.	
Electric Sign.....	\$240.00
Decoration and Construction Work.....	3,944.09
Insurance.....	248.69
\$4,432.78	
Telephones and Telegrams.....	52.81
Rental, Invalids' Chairs.....	20.00
Removing Rubbish.....	344.00
Expense, Tea Room.....	413.64
Freight, Express and Trucking.	
Freight and Express.....	\$20.36
Trucking.....	29.20
\$49.56	
Incidentals at Exhibition Hall.....	357.02
Sign Holders.....	77.50
Taxi Hire (Trips to Bank, etc.).....	120.00
A. Herrington (Manager).....	300.00
Guy W. French (Asst. Manager).....	173.60
A. A. Niessen (Local Secretary).....	300.00

AMERICAN BULB COMPANY

172 N. Wabash Ave.
CHICAGO, - ILL.

We are now ready to book orders for French and Dutch
Bulbs, Lilies and other Florists' Necessities.

WRITE US FOR PRICES

P. Welch, services and expenses....	202.00
George Asmus, Chairman, fare, expenses and 14 days' services.....	233.30
Wm. F. Kasting:	
Expenses and services.....	\$50.00
Services, Special Clerk.....	50.00
Postage.....	10.00
110.00	

C. H. Totty, services and expenses	100.66
A. Farenwald, fares, etc.....	26.04
Miss Anna Jarvis, account Mother's Day.....	100.00
Henry A. Dreer, Inc., replacing Miss Thomson Exhibit.....	30.90
Electric Current, Exhibition Hall.	879.33
Badges, Associate Members.....	350.00
Judges' Badges.....	21.12
Prize Award Badges.....	85.00
Sod.....	75.00
Expenses, Committee on Exhibits.	57.19
Southern Smilax for Decorating Hall.....	425.70
Labor.....	850.33
Banquet to Jurors and Officials.....	356.80
Bureau of Information.....	139.15
Expenses, Committee on Lectures.	429.31
Hotel Expenses, Chairman, Asst. and Secretary.....	196.56
Rebate, Account Circus.....	100.00
Signs for Exhibition.....	58.50
Incidentals, Secretary's Office.....	70.39
Heating Exhibition Hall:	
Engineering Services, etc.....	\$736.76
Coal.....	521.30
1,258.06	

Expenses, Art Gallery.....	40.00
Office Furniture.....	34.00
A. N. Pierson, Inc., difference between freight and express rate (Rose Garden Exhibit).....	77.75
Clerical Assistance, Stenography, etc., Secretary's Office.....	288.00
Mileage, Flower Show Committee.....	265.45
Office Expenses, Chairman of Committee.....	388.95
Traveling Expenses, Secretary of Committee.....	73.00
Police.....	297.00
Postage Stamps.....	343.57
Guarantors' Fund returned.....	4,917.50
Dividends paid Guarantors.....	967.00
Engraving.....	3.10
Engraving Certificates.....	5.00
\$49,876.19	

RECAPITULATION.

General Receipts.....	\$62,273.16
Disbursements.....	49,876.19
Profit.....	\$12,396.97

From this amount the cost of Dies and Medals will be deducted.

(Continued on page 302)

SEED TRADE

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending August 11, were recorded as follows:

Bulbs.—France, \$40,255; Netherlands, \$6,794; Bermuda, \$651; Hongkong, \$130.

Plants.—Belgium, \$383; Denmark, \$152; Netherlands, \$105; Bermuda, \$31; Brazil, \$21; Colombia, \$161.

Red clover seed.—France, \$3,281.

Clover seed.—France, \$6,553; Netherlands, \$4,500.

Grass seed.—Russia, \$17,361; New Zealand, \$5,955.

Other seeds.—France, \$1,774; British India, \$1,079; Hongkong, \$237; Japan, \$320; Morocco, \$7,723; Italy, \$882; Netherlands, \$675; Russia, \$9,301.

Nitrate of soda.—Chile, \$236,142.

Other fertilizers.—Scotland, \$138.

Notes.

Clarinda, Ia.—The A. A. Berry Seed Company has increased its capital stock from \$150,000 to \$300,000.

We learn from reliable sources that there will be probably a shortage of 50 per cent. on Roman hyacinth bulbs this season.

J. Henry Joyeux, field seed manager, and Claude B. Ramsey, advertising manager of J. Bolignano & Son, have just returned from a week-end trip, spent with Charles J. Bolignano at his mountain home near Mountain Lake Park, Md.

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

KELWAY & SON

Wholesale Seed Growers and Merchants

LANGPORT, ENGLAND

have pleasure in announcing that their

Mr. H. A. Naldrett

is now taking a business trip throughout the United States and Canada. Mr. Naldrett's address during this period will be

c/o MESSRS. THOMAS MEADOWS & CO.
8-10 Bridge Street,
Battery Park, NEW YORK

where please write him.

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

Burpee's Seeds

PHILADELPHIA

**BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.**

MICHELL'S FLOWER SEED

NEW CROP

CYCLAMEN SEED

ENGLISH GROWN

	100 Seeds	1000 Seeds
Duke of Connaught, Crim- son	\$1.00	\$8.50
Excelsior, White with Eye	1.00	8.50
Grandiflora Alba, White	1.00	8.50
Princess of Wales, Pink	1.00	8.50
Salmon Queen, Salmon pink	1.00	8.50
Mixed Colors	.90	8.00

GERMAN GROWN

Album, White	.75	6.00
Roseum, Pink	.75	6.00
Rubrum, Red	.75	6.00
White with Red Eye	.75	6.00
Glory of Wandsbek, Sal- mon red	1.25	10.00
Mixed Colors	.60	5.00

MIGNONETTE SEED

Michell's Colossal

A strain which cannot be surpassed for forcing; immense flower spikes. Our seeds are saved from greenhouse grown specimens and give splendid results. Trade pkt. 40c., \$4.00 per oz.

Send for Our Latest Wholesale Cata-
logue if you haven't a copy.

HENRY F. MICHELL CO.

518 Market St., Philadelphia, Pa.

LILIUM HARRISII BULBS

	Per 100	Per 1000
5 in. to 7 in.	\$5.00	\$40.00
7 in. to 9 in.	9.00	80.00
9 in. to 11 in.	22.00	

—ALSO—

FREESIA REFRACTA ALBA

	Per 100	Per 1000
Mammoth Size	\$1.75	\$12.00

For Immediate Delivery

J. M. THORBURN & CO.

53 Barclay Street

Through to 54 Park Place
NEW YORK CITY

LILIUM GIGANTEUM COLD STORAGE

Extra Selected Stock. Gladiolus for for-
cing. Nannus, Colvilled or large flower-
ing type. Greenhouse Fertilizers. Ask
for 1916 Seed Catalogue.

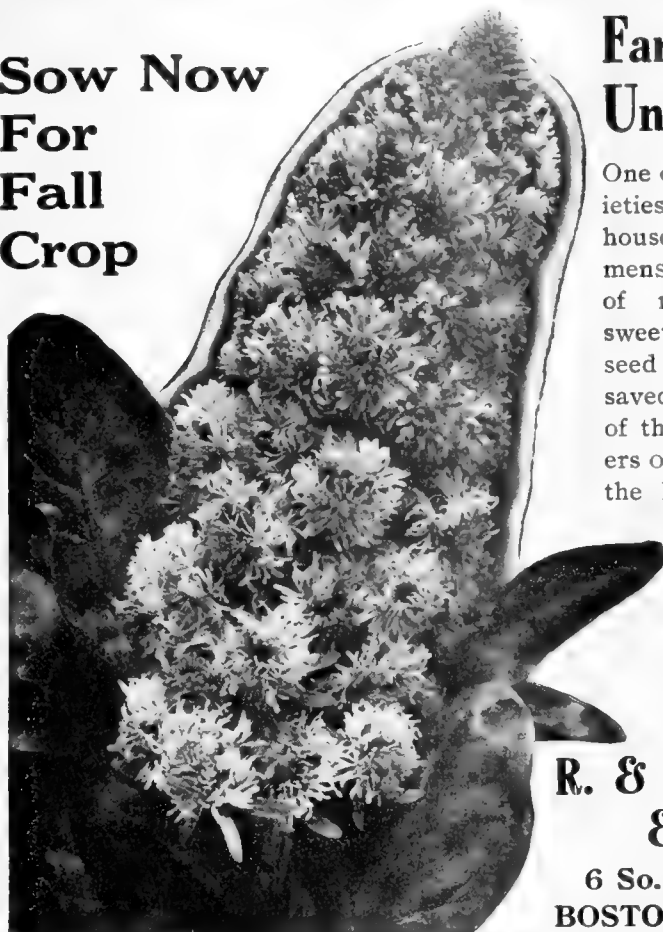
Joseph Breck & Sons Corp., Seedsmen
47-54 No. Market St., BOSTON, MASS.

W. E. MARSHALL & CO. SEEDS, PLANTS AND BULBS Horticultural Sundries

166 W. 23rd St., NEW YORK

MIGNONETTE

Sow Now For Fall Crop



Farquhar's Universal

One of the finest var-
ieties for the green-
house, producing im-
mense flower spikes
of reddish green,
sweetly scented. The
seed we offer was
saved for us by one
of the largest grow-
ers of Mignonette for
the Boston market.

Ounce	\$15.00
1-4 oz. . .	3.75
1-8 oz. . .	2.00
1-16 oz. .	1.00

R. & J. Farquhar & Co.

6 So. Market St.
BOSTON, - MASS.

LEONARD'S SEEDS and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

POINSETTIAS

August Shipment

True type, fine 2½ inch plants, shipped in
paper pots, \$6.00 per 100, \$50.00 per 1000.

A. HENDERSON & CO.

211 N. State St.

CHICAGO, ILL.

My new Price List of
WINTER-ORCHID-FLOWERING SWEET
PEA SEED

Has been mailed. If you have not received
a copy, send me postal. Part of new crop
will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch

Lompoc, Cal.

MIGNONETTE

IMPROVED ECLIPSE.

Superior to all others for winter bloom-
ing, exhibition, or cutting. Immense frag-
rant spikes 10 to 15 inches long. Green-
house grown seed from a re-selected strain
Pkt. 25c., 1/16 oz. \$1.00. Catalogue upon
application.

THOMAS J. GREY CO., Seedsmen
29 So. Market St., Boston, Mass.

NEW CROP SEEDS

PANSY SEED. Giant flowering florist mix-
ture. American grown. (Best money can
buy.) 50c. per tr. pkt., ¼ oz. \$1.50, oz. \$5.00.
PANSY SEED SPECIAL. Greenhouse mix-
ture for forcing; long-stemmed. \$1.00 per
tr. pkt., ¼ oz. \$1.50, ¼ oz. \$2.50; oz. \$8.00.
SWEET PEAS. Zvolanek's Orchid Flower-
ing in all varieties. I have his agency
this season.

ROMAN J. IRWIN,

Plants, Cuttings, Bulbs, Seeds.
108 West 28th Street - - - New York.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT AND ELLICOTT STS. BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter flowering Pink Snapdragons on
the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.

PHILADELPHIA, PA.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

For KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for New York. Write or Phone to

MAX SCHLING

22 West 59th Street. - Adjoining Plaza Hotel

Best Florists in the States as References.

EUROPEAN ORDERS EXECUTED.
Members of the Florists' Telegraph Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York

Telephone 1552-1553 Columbus

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

WORCESTER, MASS.

Randall's Flower Shop

HARRY L. RANDALL, Proprietor.

Member Florists' Telegraph Delivery Association

Of Interest to Retail Florists**FLORISTS' TELEGRAPH DELIVERY**

At the annual meeting of this association, held in Houston, Tex., on Wednesday, August 16, owing to the absence of President Irwin Bertermann Vice-President Gude presided. D. A. Brown was elected secretary pro tem. Trade conditions were discussed and the next meeting will be held in Chicago October 11 and 12.

The following officers were elected: William F. Gude, Washington, president; George Asmus, Chicago, vice-president; Albert Pochelon, Detroit, secretary; W. L. Rock, Kansas City, treasurer.

NEW FLOWER STORES.

St. Louis, Mo.—Mrs. Ben Westhus, Skinner and Berlin avenues.

Chicago, Ill. — University Flower Shop, 63rd and University avenue.

Swampscott, Mass. — Harold C. Blaney, Humphrey, opp. Redington St.

NEW CORPORATION.

Rochester, Minn.—Queen City Greenhouse Co., capital stock \$50,000. Incorporators, Dr. Wm. C. McCarty, Geo. N. Sherman, Oscar V. Hanson, W. F. Klee and D. M. Wigle.

NEWS NOTES.

Detroit, Mich. — Philip Breitmeyer has just returned from his daughter's home in Montana, where his wife and he spent six weeks of Sundays. He says that while the easterners were suffocating with the heat they enjoyed a fair amount of cool breezes,—in fact, sometimes an overcoat was very comfortable.

Greenwood, Miss.—The home of Mrs. Edith Biddle was badly damaged by fire communicated from an adjoining estate, on July 26. Mrs. Biddle lost most of her roses, lilies, ferns, late asters, cannas, pot plants and shrubs and the loss is a calamity to her. We are sure that any donations of stock from generous friends in the trade would not be amiss and hope that this notice may be the means of inducing such.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address Dardsflor.

HIGH GRADE PLANTS

For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUDE BROS CO
1214 F ST NW
WASHINGTON DC

GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

**IN THE
National Capital**

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. O.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 506.

Long Dist. Bell Phone 2180

Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEWPORT, R. I.

145 Bellevue Avenue.

WE GUARANTEE SATISFACTION
MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1836 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

FLOWERS BY TELEGRAPH
SAN FRANCISCO
CALIFORNIA
Pelicano, Rossi & Co.
123 KEARNY ST.

HESS & SWOBODA
FLORISTS
Telephones 1801 and L 1888.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F.T. D. Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State St.
Albany, N. Y.—The Rosery, 23 Steuben St.
Albany, N. Y.—William C. Gloeckner, 97 State St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th St.
Cleveland, O.—The Smith & Feters Co., 735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.
New London, Conn.—Reuter's.
Newport, R. I.—A. T. Bunyard, 145 Belleuve Ave.
New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco—Pelicano, Rossi & Co., 123 Kearny St.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—H. F. A. Lange.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

Penn The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 Tremont St., BOSTON

REUTER'S Members Florists
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
106 STATE STREET, ALBANY, N. Y.



NEWPORT SUMMER SHOW

The third mid-summer exhibition by the Newport Garden Club and the Newport Horticultural Society was held on the grounds of Hill Top Inn, Aug. 17, 18 and 19, with displays of plants, flowers, fruits and vegetables mainly from the greenhouses and private estates of Newport. The exhibition was opened by Gov. R. Livingston Beeckman making an address of welcome. Half the proceeds go to the Newport National Special Aid Society in their work for militiamen of Rhode Island on the border.

Arthur Herrington of Madison, served efficiently as manager of the show and the groups on the capacious lawn and under canvas were arranged with excellent effect. The judges were James Wilson, Natick, Mass.; John Duguid, Wellesley, Mass.; John Marshall, Providence, R. I.; Bruce Butterton, Newport, R. I.; C. M. Bugholt, and Andrew Meikle, Newport, R. I.

The summer residents exhibiting, and their gardeners, were Vincent Astor, James Boyd; Mrs. F. Mortimer Brooks, James Bond; Mrs. T. O. Richardson, James Robertson; Mr. Henry A. C. Taylor, William MacKay; Governor Beeckman, J. B. Urquhart; Mrs. French Vanderbilt, Daniel Hay; "The Reef Gardens, T. M. Davis estate, Victor May; Mrs. W. G. Weld, James Watt; Mrs. T. J. Emery, Andrew Dorward; J. B. Haggin, Dennis Foley; Mrs. William Grosvenor, James Mattson; Mrs. J. J. Wysong, Jas. G. Kyle; Miss Fannie Foster, C. M. Bugholt.

Out-of-town exhibitors were B. Hammond Tracy of Wenham, Mass., with beautiful gladioli; Raymond W. Swett, Saxonville, Mass., and George L. Stillman, Westerly, R. I.

There were 93 regular classes in the schedule, each as a rule carrying three prizes. We have not room to give the list of awards in detail. All of the above-mentioned exhibitors figured largely as winners, also the Wilson Nurseries with their specialties. Extra and special awards were made as follows:

Silver medal to C. M. Bugholt for Gladiolus, "Ridgeman," a white seedling of America. Also to the same the Grosvenor cup for the best novelty in the show.

Mrs. French Vanderbilt cup for best exhibit by private gardener, and Garden Club cup for best exhibit in show, were both awarded to Victor May for his 100 ft. group of foliage plants.

Jos. Manda sweepstakes for gardener winning most points and A. Richards sweepstakes for gardener winning most first prizes—both to James Bond.

First class certificate for *Nymphaea gigantea* and certificate of merit for *Nymphaeas* "Formosa" and "Attraction," all shown by Henry A. Dreer.

Honorable mention T. Sutton Tailor for Caladiums.

First class certificate—Emerson F. Bennett of Acushnet, Mass., for decorative Dahlia seedling.

Honorable mention and gratuity—James Brown, for educational and instructive exhibit of wild flowers.

Silver medal John Scheepers Co., Inc., New York, for trade exhibition of a group of Begonias.

Gratuity of \$5—Robert Clifford, gardener at Hill Top Inn, for two specimens of *Aucuba japonica*.

Honorable mention—Mrs. Slater for vase of Gladioli.

Silver medal—L. Merton Gage, Natick, Mass., for vase of Gladiolus, "Mrs. Dr. Norton."

First class certificate—H. E. Meader, Dover, N. H., for Gladiolus "Myrtle."

Honorable mention for Charles H. Totty for collection of seedling Delphiniums.

Honorable mention—Mrs. C. P. Smith, Middletown, for four vases Gladioli.

Honorable mention—W. A. Manda, South Orange, N. J., for collection of Caladiums.

Gratuity of \$5—C. W. Brown and Son, Ashland, Mass., for Gladioli, too late to stage.

William Gray, gardener for Mrs. William B. Leeds, won the Beeckman prize for the best floral decoration for not more than 12 covers, on the third and last day.

E. Hammond Tracy won the Rice prize and N. H. S. silver medal for display of Gladioli; George L. Stillman the same for display of Dahlias and H. A. Dreer the same for exhibit of Water Lilies.

Some of the exhibits which impressed us as meriting particular mention were the fine group of speciosum lilies in pots by D. A. Hay; crotons by Victor May; finely colored dracaenas in the group of ferns and foliage plants, also Rex begonias, by James Bond; group of lilies by Andrew Dorward; splendid gladiolus spikes by James Boyd; collection of summer flowering bulbs by James Watt, also grapes arranged for effect with montbretias and cosmos; water-lilies by H. A. Dreer and group of fancy caladiums by W. A. Manda.

Banquet.

On Thursday evening about fifty of the visiting gardeners and exhibitors were entertained at the Bellevue by Governor Beeckman, who made a spirited address which greatly pleased his guests. John B. Urquhart, president of the Newport Horticultural Society presided.

After the dinner President Urquhart called upon Messrs. Herrington, Tracy, Hayes, Sealey, Barkmore and

Holmes of the out-of-town guests and Secretary Fred P. Webber and Messrs. Andrew K. McMahon, Alexander MacLellan, James Bond and Victor May of the society. Each responded with a more or less brief speech of appreciation.

On Friday afternoon Mr. Herrington delivered a lecture on The Iris.

REFRESHING DAHLIA BLOOMS.

As the time approaches for dahlia exhibitions I am reminded of an experience I had once. Four days before a show in a neighboring town I picked an extra large blossom of the variety "Geisha" to compete for a prize for the largest flower in the hall. On the morning before the exhibition I found the flower wilted flat. I put it in hot water, almost to the boiling point, immersing the stem nearly to the flower, and left it to cool. The next morning it was standing up all right, and I carried it to the show, packed in a box, and set it up. It took first prize, and kept until the show was over, two days later.

A. J. FISH.

Massachusetts.

HEDGE OF THUYA OCCIDENTALIS.

The picture which fills our title page this week was taken in the grounds of George B. Dorr at Bar Harbor, Me. Everybody knows our American arborvitae and further comment is not called for here. Its adaptability for fine hedge purposes in the rigorous "down east" climate is well shown in this picture.

CATALOGUE RECEIVED.

William Elliott & Sons, New York. —Giant Flowering Bulbs and Seeds, for the Trade Only." Autumn 1916 edition, and it is "all right."

DAHLIA MRS. ALFRED I. DUPONT.



This new dahlia is one of the set of seedling novelties shown by W. A. Manda two years ago and is one of the finest of the recent dahlia introductions, its glowing color and long stems making it particularly desirable as a cut flower.

BASKETS BASKETS BASKETS

BUY YOUR FALL SUPPLIES NOW

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Don't Miss This Chance

Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

1129 Arch Street, PHILADELPHIA, PA.

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

Miss Mae Schultz, of J. A. Budlong's, is having a two weeks' vacation and Mrs. Schupp is a regular member of the office force during her absence.

Clarence H. Stuhldreher, of Mansfield, O., visited the growers here this week. Alex. C. Gardner returned with him to have charge of the retail store.

Aster growers have no difficulty in selling their high-grade stock for six cents and the money looks good with the coal bills not so far in the future.

O. A. Tonner and M. C. Gunterberg, Chicago's two lady wholesale florists, are away—the former in the cherry district of northern Wisconsin, the latter on the way from New Orleans to New York by boat.

C. H. Ketchum, of South Haven, Mich., who specializes in the growing of gladioli, is giving evidence that he understands the cultivating of that flower. He is one of the stockholders in the Chicago Flower Growers' Association and naturally much of his best stock is to be seen there. The spikes are very long and the flowers large and he keeps varieties limited to a comparatively few kinds.

The American Bulb Co. is the latest addition to Chicago's wholesale firms selling florists' necessities. Readers will please notice that the new company will be glad to quote prices on any of the accessories now carried by up-to-date florists, as well as on bulbs. The firm is composed of A. Miller, formerly member of the A. Henderson Co.; Albert Koehler, lately with Vaughan's Seed Store; Robt. Newcomb, former traveling salesman for the same firm, and San Seligman, who traveled many years for Wertheimer Bros. Two of the men have had their business training largely in Chicago and the others in the still larger field of traveling salesmen. Their foreign connections are such as will enable them to carry the best that can be produced. Vincent Neil, an-

other Vaughan graduate, will be associated with the firm at their office at 172 N. Wabash avenue.

WASHINGTON, D. C.

The new front for the store of William Marche & Co. is rapidly being completed. A formal opening is in prospect.

Painters and decorators have been at work at the store of J. H. Small & Sons and the entire interior has been gone over in preparation of a very busy fall and winter season. Other stores will soon follow suit.

The attention of the florists here has been directed to the fear expressed in New York that the spread of the paper box makers' strike may bring a famine for these containers. It is said that two-thirds of the workers in the industry already are on strike, and their leaders assert that shortly the entire paper box trade will be at a standstill.

A number of the employees of J. H. Small & Sons, are enjoying their annual vacations. James Dagleish is at Atlantic City, N. J. Edwin Teague has been staying in his bungalow on the Potomac and last week went up to Cumberland, Md. Mr. and Mrs. J. Henry Small, Jr., motored to Boston and Massachusetts beach resorts, also visiting New York and Phila. Miss Minnie E. Shea is at Atlantic City, N. J. Mr. and Mrs. Stanley Holland have just returned from a run to Philadelphia and Atlantic City.

PITTSBURGH.

Frederick J. L. James has purchased the John Doleman farm in Penn township with the intention of going into the wholesale floral business next spring. Mr. James is a son of Edward Shelton James, who has charge of the roof greenhouse for the Fort Pitt and William Penn Hotel, as well as supervising the Hotel Schenley grounds, and a nephew of Walter James, super-

intendent of the W. Henry R. Hilliard's city grounds and greenhouse.

Accompanied by Mrs. Burke, George W. Burke, Supt. of Parks, is on a motor trip in New England. George B. Telfair, with Mrs. Telfair, has returned from a three week's vacation trip in the south. Owing to the southern floods, Mr. Telfair found it necessary to abandon his automobile at Washington. Miss Catharine Friel, manager of Ray J. Daschbach is at Atlantic City where she will remain until after Labor Day. Carl Doelker has returned from a visit in Wheeling, W. Va. John Hoffman, Miss Mathilda Hammerschmidt and Edward J. Bambach, all employees for E. C. Ludwig Floral Co., have returned from vacations. Miss Bertha Hughes, a saleswoman for Randolph & McClements, is expected back today. Frank Misoelek and Dominick Piscioneri, assisting gardeners on the Charles D. Armstrong estate, have returned from three weeks' vacations, the latter at Albany and the former to New Rochelle, N. Y.

ST. LOUIS.

The Misses Guy, daughters of E. W. Guy, of Belleville, Ill., will leave on August 31 for Decatur, Ill., and Saginaw, Mich., to teach physical culture.

Nat Kingsley, Martin Seiger and Julius Schaeffer, of the Mullanphy Florists, are away for a two weeks' vacation. Tobe Teason, an employee of the firm, died last week and the employees sent a casket cover and served as pall bearers.

The Spring Flower Show Committee have decided to incorporate as the "St. Louis Flower Show Association." On the return of the paper from Jefferson City the preliminary lists will be mailed. The show will be held at Armory Hall, March, 1917, when a splendid outside exhibition can be made. W. W. Ohlweiler, secretary, is now in New York in interest of the show.

LET US SUGGEST to you during the
hot months of the year

BEAUTIES

\$1.00—\$3.00 dozen

Grown from young plants for summer blooming, is an item we can recommend to you. The flowers are of a fair size, good color and clean foliage. If you cannot get them elsewhere, try us.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964—1965

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 3860 Madison Square

WOODROW & MARKETOS

WHOLESALE

Plantsmen and Florists

37 and 39 West 28th St., NEW YORK



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

226 DEVONSHIRE ST.,
Telephone, Main 6267-6268

BOSTON, MASS.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON August 24		ST. LOUIS August 21		PHILA. August 21	
Roses						
Am. Beauty, Special.....	15.00	to 25.00	15.00	to 25.00	15.00	to 20.00
" " Fancy and Extra.....	10.00	to 15.00	8.00	to 10.00	10.00	to 12.00
" " No. 1 and culls.....	1.00	to 6.00	1.00	to 5.00	3.00	to 8.00
Russell, Hadley.....	2.00	to 10.00	5.00	to 10.00	2.00	to 10.00
Killarney, Hillingdon, Ward, Extra.....	4.00	to 8.00	5.00	to 8.00	4.00	to 6.00
" " Ordinary.....	1.00	to 2.00	3.00	to 4.00	2.00	to 4.00
Arenburg, Radiance, Taft, Key, Extra.....	3.00	to 8.00	.....	to 4.00	4.00	to 6.00
" " Ordinary.....	1.00	to 2.00	.....	to 2.00	4.00	to 6.00
Ophelia, Mock, Sunburst, Euler, Extra.....	3.00	to 8.00	5.00	to 8.00	4.00	to 6.00
" " Ordinary.....	1.00	to 2.00	2.00	to 3.00	2.00	to 4.00
Carnations						
Cattleyas.....	.....	to 40.00	2.00	to 3.00	1.00	to 2.00
Dendrobium formosum.....	40.00	to 60.00	30.00	to 40.00	60.00	to 75.00
Lilies.....	.....	to 25.00	.....	to 10.00	.....	to 50.00
Lily of the Valley.....	4.00	to 6.00	10.00	to 12.50	8.00	to 10.00
Snaptagon.....	4.00	to 6.00	4.00	to 5.00	3.00	to 6.00
Gladioli.....	.50	to 1.00	3.00	to 4.00	1.00	to 4.00
Asters.....	1.00	to 3.00	3.00	to 4.00	1.00	to 4.00
Dahlias.....	.50	to 3.00	.....	to 1.00	1.00	to 4.00
Gardenias.....	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00
Adiantum.....	20.00	to 25.00	.....	to 1.25	.....	to 1.00
Smilax.....	.....	to 1.00	1.00	to 1.25	.....	to 1.00
Asparagus Plumosus, & Spreng. (100 Bchs.).....	10.00	to 12.00	12.00	to 15.00	15.00	to 20.00
	20.00	to 25.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

493 WASHINGTON STREET - - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER OF

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

The situation has changed very materially in this market since last week. Flowers of all seasonable kinds are coming in much more heavily and the wholesalers are well filled up with material for which there is a very light demand. Roses are increasing daily, gladioli and asters are a burden and there are many other things to help the stagnation, such as hydrangeas, calendulas, buddleias and dahlias. Lily of the valley is the only item that is short of the needs of the market and it brings stiff prices.

At this writing, Aug. 22, Chicago is having its first cool breeze for many days. With the unabated heat of many weeks, flowers have had a hard time and the only wonder is that there are any good ones in the market. Roses must of necessity be soft and inclined to open and cannot have the vitality of cooler days. Carnations from the new plants are short of stem and small and in many cases have little to recommend them. American Beauties from new plants are doing well and probably as many are being cut as the market requires at this season. For outdoor stock the two dependables are asters and gladioli and without these the market would be seriously crippled. Some few of the asters rank as first class stock and are seen with 27 and 30 inch stems and good heads while following these come a fair supply of lesser value and then comes the still large proportion of small, sunburned asters of no value where the individual flower is to be seen. Gladioli are fine and probably among the best of any August in their history. Local trade is quiet.

This market cannot be described as badly in need of flowers

any longer. The second crop of asters is now arriving in increasing quantities, and there are very heavy shipments of dahlias and gladioli daily. The difference in quality in all three of the aforementioned staples is very great and the prices vary accordingly. It certainly appears that there are more of the inferior quality stocks than of the better. Really fine flowers well grown and carefully handled and packed are decidedly in the minority. It is these that make the high price quotations possible and they are well worth the difference. Never before have we seen so many imperfect asters; half developed, one-sided and discolored, many of them are no better than rags. The same is true of gladioli. Roses are gradually attaining size and color and are bringing good prices for the season. Lily of the valley runs scarcer and scarcer and the price has more than doubled.

Interrogated as to business conditions, William A. Clarke of the Pittsburgh Cut Flower Company, replied: "They are just about in the same situation as the Christian in Politics, as depicted by the painfully



FIELD GROWN
CARNATION PLANTS

PINK		100	1000
Alice	.....	\$7.50	\$65.00
ENCHANTRESS SUPREME	.....	7.50	65.00
Mrs. C. Edward Akehurst	.....	6.00	50.00
Pink Sensation	.....	8.00	75.00
Mrs. C. W. Ward	.....	7.00	55.00
Enchantress	.....	7.00	55.00
Rose Pink Enchantress	.....	7.00	55.00
Rosette	.....	7.50	60.00
Dorothy Gordon	.....	7.50	60.00
Gloriosa	.....	7.50	60.00
RED			
Champion	.....	7.50	60.00
Princess Dagmar	.....	7.50	60.00
Beacon	.....	7.00	60.00
Harlowarden	.....	7.00	55.00
Victory	.....	7.00	55.00
WHITE			
MATCHLESS	.....	7.00	55.00
White Wonder	.....	7.00	55.00
White Enchantress	.....	7.00	55.00
White Perfection	.....	7.00	55.00
Alma Ward	.....	7.00	55.00
VARIEGATED			
Benora	.....	8.00	70.00

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA
NEW YORK 117 W. 28th St. PHILADELPHIA 1608-1620 Ludlow St. BALTIMORE Franklin & St. Paul Sts. WASHINGTON 1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	CINCINNATI August 21		CHICAGO August 21		BUFFALO August 21		PITTSBURG August 14	
	to	25.00	to	30.00	to	25.00	to	25.00
Am. Beauty, Special.....	20.00	to 25.00	25.00	to 30.00	20.00	to 25.00	20.00	to 25.00
" " Fancy and Extra.....	15.00	to 20.00	15.00	to 20.00	12.00	to 15.00	10.00	to 15.00
" " No. 1 and culls.....	10.00	to 15.00	5.00	to 10.00	6.00	to 10.00	4.00	to 6.00
Russell, Hadley.....	.....	.....	2.00	to 15.00	.....	.....	.....	.....
Killarney, Hillingdon, Ward, Extra Ord.	5.00	to 6.00	6.00	to 8.00	4.00	to 6.00	6.00	to 8.00
Arenburg, Radiance, Taft, Key, Ex. Ord.	3.00	to 4.00	2.00	to 5.00	2.00	to 4.00	8.00	to 4.00
Ophelia, Mock, Sunburst, Euler, Ex " " " Ord.	5.00	to 6.00	6.00	to 8.00	5.00	to 6.00	6.00	to 8.00
.....	3.00	to 4.00	2.00	to 5.00	2.00	to 4.00	2.00	to 4.00
Carnations								
Cattleyas.....	.....	.....	25	to 1.00	1.00	to 2.00	.....	to 1.00
Dendrobium formosum.....	50.00	to 60.00	40.00	to 50.00	.....	.....	.....	to 50.00
Lilies.....	.....	.....	.....	.....	.....	.....	.....	.....
Lily of the Valley.....	8.00	to 10.00	6.00	to 8.00	8.00	to 10.00	10.00	to 12.00
Snaydragon.....	5.00	to 6.00	3.00	to 5.00	4.00	to 6.00	4.00	to 8.00
Gladioli.....	.....	.....	2.00	to 4.00	.....	.....	.50	to 1.00
Asters.....	4.00	to 6.00	3.00	to 6.00	2.00	to 4.00	4.00	to 8.00
Dahlias.....	2.00	to 4.00	3.00	to 6.00	1.00	to 2.00	.50	to 3.00
Gardenias.....	.....	.....	.....	.....	1.00	to 3.00	.....	.....
Adiantum.....	.....	.....	.....	.....	.....	.....	.....	.....
Smilax.....	.....	.....	.....	.....	.....	.....	.....	.....
Asparagus Plu. & Spreng. (100 Bhs.)	15.00	to 20.00	12.00	to 15.00	1.00	to 1.25	1.00	to 1.25
	20.00	to 25.00	25.00	to 50.00	.....	to 15.00	.....	to 15.00

conscientious visitor to a religious brotherhood, when invited to speak on this subject: "Gentlemen, there aint none." Burning August skies with little relief through showers have played havoc with stock of all kinds and society, such as is in town, is not inclined in the way which makes for demands on the tradesmen. Exceptions should be made, however, on those firms which make a specialty of funeral work, which has kept up right along.

ST. LOUIS The wholesale market has been in very poor condition for the past month and the retailer has had a hard time getting enough good stock to fill orders. Prices are up on this stock. The long dry spell was broken the past week by good rains which should help outdoor stock to better quality and should increase the supply. There is very little going on among the retailers. Prices run along as usual.

WASHINGTON Conditions in Washington continue very quiet while the city is battling through the hottest week of the present summer. All flowers are showing the effects of

the heat and it is difficult in some lines to get top notch stock. Gladioli predominate, but it appears as though the season for these is waning and that the present supply is largely culls. Asters are more plentiful and dahlias have been offered in somewhat larger quantities. Hydrangea is being featured in many of the stores, but are in very little demand.

PUBLICATION RECEIVED.

We have received two booklets issued by the Federal Trade Commission at Washington, D. C., one dealing with the fundamentals of a cost system for manufacturers, and the other outlining a simple system of accounts for retail merchants. These booklets are being sent to manufacturers and merchants throughout the United States, and it is hoped that they will be read carefully and that the suggestions will be found helpful. In giving these documents space and special mention we feel sure we are doing something worth while for our subscribers, our advertisers, and the business men of the horticultural trade. Edward N. Hurley is vice-chairman of the Commission and copies may be obtained from him on request.

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street

Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5235, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE {608} MADISON SQ., NEW YORK

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.
Tel. {1983} Mad. St. 119 W. 28 St., New York

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.

Wholesale Commission

READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE {2281} FARRAGUT 131 West 28th St., NEW YORK CITY
{3089}

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST VALLEY ALWAYS
GRADE OF GARDENIAS, DAISIES, ROSES, CARNATIONS

JAMES McMANUS. TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, NEW YORK

Telephone 7062 Madison

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones {1664} Madison Square
{1665}

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only**ROSES AND CARNATIONS**

	Last Half of Week ending Aug. 19 1916	First Half of Week beginning Aug. 21 1916
American Beauty, Special	15.00 to 25.00	15.00 to 25.00
" " Fancy and Extra	10.00 to 15.00	10.00 to 15.00
" " No. 1 and culls	2.00 to 8.00	3.00 to 8.00
Russell, Hadley	2.00 to 8.00	1.00 to 8.00
Killarney, Hillingdon, Ward, Extra	3.00 to 5.00	3.00 to 5.00
" " Ordinary	1.00 to 2.00	1.00 to 2.00
Arenburg, Radiance, Taft, Key, Extra	3.00 to 6.00	4.00 to 8.00
" " Ordinary	1.00 to 2.00	1.00 to 2.00
Ophelia, Mock, Sunburst, Euler, Extra	4.00 to 8.00	4.00 to 8.00
" " Ordinary	1.00 to 2.00	1.00 to 2.00
Carnations	50 to 1.00	.50 to 1.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for doing
our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK

Phones 2036, 2037, 558 Farragut

Frank H. Traendly Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797-798-799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality.

114 West 28th Street

NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13-8510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

Visitors' Register

Boston—S. S. Penneck, Philadel-
Phia.; F. X. Amrhy, New Haven,
Conn.

New York—John McClements, Pitts-
burgh, Pa.; C. C. Pollworth, Milwau-
kee, Wis.

Pittsburgh—Joseph J. Goudy, repre-
senting Henry A. Dreer, Phila., Pa.,
and Isaac Bayersdorfer, of H. Bayers-
dorfer & Co., Phila.

Canton, O.—Mrs. H. L. Holmes and
son, Harrisburg, Pa., visiting H. L.
Holmes, Jr., president of the Holmes,
Leatherman Seed Co.

St. Louis.—J. Marks, Chicago; J. B.
Fromhold, Chicago; Wm. Colligan,
Chicago; Saul Rosenfield, New York;
F. Farney and J. Morichard, Phila.

Philadelphia—Patrick Joseph Lynch,
New Castle, Indiana; J. K. M. L. Far-
quhar and George Cruickshank, Bos-
ton, Mass.; J. I. McCallum, with
Scholtz, the Florist, Charlotte, N. C.;
O. Triebwasser, Lake Forest, Ill.

Washington, D. C.—C. T. Eldrich,
Danville, Va.; Sidney H. Bayersdorfer,
Phila., Pa.; D. C. Connor, Lord & Burn-
ham, Phila.; J. I. McCallum, with
Scholtz the Florist, Inc., Charlotte, N.
C.; James Harper and family, Pierson,
Fla.; H. Cheeseman, Ward's, New
York; W. H. Jennings, Baltimore
Florists' Supply Co., Baltimore, Md.

Chicago.—Robt. H. Blake, with Mrs.
J. B. Freeman, Toledo, Ohio; H. Baum-
garten, Milwaukee, Wis.; Clarence H.
Stuhldreher, Mansfield, Ohio; Henry
R. Marquardt, of E. Welke Co., Mil-
waukee, Wis.; Henry F. Preeses and
H. J. Leitz, of the New Haven Floral
Co., New Haven, Ind.; R. W. Doswell,
Fort Wayne, Ind.; C. M. Scharffen-
berger, Defiance, O.; F. H. Henry, of
Henry & Lee, New York.

Newport, R. I.—John Doig, South-
boro, Mass.; R. E. Sealy, repr. Julius
Roehrs Co., Rutherford, N. J.; Eber
Holmes, repr. W. A. Manda, South
Orange, N. J.; A. A. Macdonald, Som-
erville, N. J.; A. Herrington, Madison,
N. J.; Wm. J. Stewart, Boston; John
Duguid, Wellesley, Mass.; James
Wheeler, Brookline, Mass.; John
Marshall, Providence, R. I.; B. Ham-
mond Tracy, Wenham, Mass.; D. F.
Roy and Mrs. Roy, Marion, Mass.;
J. S. Hay, repr. H. A. Dreer, Phila., Pa.

Obituary

Mrs. James M. Thorburn.

Mrs. Thorburn, widow of James M.
Thorburn, seedsman, died at Patch-
ogue, N. Y., on Wednesday, August 23.
Mrs. Thorburn had been in a very low
state of health for the past year. She
was in her 91st year.

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower
Market furnished on short notice. Prices quoted on application. No retail orders
accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Aug. 19 1916		First Half of Week beginning Aug. 21 1916	
Cattleyas.....	20.00	to 75.00	25.00	to 75.00
Deodrobium formosum.....	20.00	to 25.00	20.00	to 25.00
Lilies.....	2.00	to 4.00	3.00	to 4.00
Lily of the Valley.....	2.00	to 0.00	3.00	to 8.00
Snagdragon.....	.50	to 2.00	.50	to 2.00
Gladioli.....	.50	to 2.00	.50	to 2.00
Asters.....	.35	to 2.00	.25	to 2.00
Dahlias.....	1.00	to 2.00	1.00	to 2.00
Gardenias.....	4.00	to 12.00	4.00	to 12.00
Adiantum.....	.85	to .50	.25	to .90
Smilax.....	6.00	to 8.00	6.00	to 8.00
Asparagus Plumosus, & Spren (100 bunches).....	10.00	to 15.00	10.00	to 19.00

BOSTON.

State Forester Frank W. Rane is
busy distributing information concern-
ing the new tree disease, the white
pine blister rust. He offers the co-
operation of himself and his depart-
ment in assisting tree owners through-
out the state in preserving the forests.
Mr. Rane has sent out a circular letter
containing much information in addi-
tion to the foregoing; a pamphlet on
the white pine blister rust and an ap-
plication blank, which a tree owner
may fill out and send to Mr. Rane if
he wants the state to make an exami-
nation of his trees at a cost sufficient
to cover the traveling expenses of the
inspectors.

NEW YORK.

A. T. Boddington left on Monday,
21st, for a few days recreation at Bel-
fast, Me.

Peth & Duggan will open their new
seed store at 87 Barclay street on
September 1.

James M. Thornton & Co.'s seed
store was closed all day last Saturday
on account of the funeral of Mrs.
Thorburn.

New York seems natural once more
now that John Young is back at his
post again after one month's absence
in the South. Mr. Young is very much
elated over his experience in Texas.
He cannot speak too highly of Presi-
dent-elect Kerr's efficiency in the
work of organizing and carrying
through the local Convention details.
He says that HORTICULTURE's note
of approval in last week's issue was
well merited and not too strong.

The exhibition of gladioli at Bronx
Botanical Garden last Saturday was
very interesting. T. A. Havemeyer
showed a very extensive collection of
the best sorts, among them being many
new ones. John Lewis Childs was
also a large exhibitor, his display in-
cluding many of the new primulinus
hybrids. James Stuart staged a good
lot of hardy herbaceous flowers and
some fine buddleias. Bobbink & At-
kins showed their hybrid mallows and
the Botanic Garden was represented
by an interesting group of hardy her-
baceous flowers.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK
Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of
Good Stock Solicited

PERCY W. RICHTER, Mgr., NEW YORK
111 W. 28th Street

HERMAN WEISS

Wholesale Florist

Experienced, Progressive and can handle
shipments of growers' product
satisfactorily.

106 West 28th St., NEW YORK
Tel. Farragut 3066.

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street
167 & 3058 Farragut NEW YORK

Established 1888 Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists

110 West 28th St., New York
We Solicit Consignments of New
England Grown Novelties.

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square
BOSTON, MASS.
Telephone 2618-2617-2616, Main.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

ADIANTUM FARLEYENSE GLORIOSA

Henry A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

A. L. Miller, Jamaica, N. Y.
Asparagus Plumosus.

For page see List of Advertisers.

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

AUCTION SALES

The MacNiff Horticultural Co.,
New York City.

For page see List of Advertisers.

Elliott Auction Co., New York City.
Plant Auctioneers.

For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price-list.

JULIUS ROEHR'S CO., Rutherford, N. J.

BEDDING PLANTS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS.

Mrs. J. A. Peterson (New), 2¼ in. pots, \$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHR'S CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.

For page see List of Advertisers.

Hitchings & Co., New York City.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

BOX TREES—Standards, Pyramids and Bush. Price list on demand.
JULIUS ROEHR'S CO., Rutherford, N. J.

BOXWOOD

August Rolker & Sons, New York City.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Sons, New York City.
Freesia Refracta Alba.

For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
Lily Bulbs.

For page see List of Advertisers.

August Rolker & Sons, New York City.
Rainbow and Purity Freesias.

For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.

For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

The MacNiff Horticultural Co.,
Holland Grown Bulbs,
New York City.

For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.

For page see List of Advertisers.

Fottler, Flske, Rawson Co., Boston, Mass.

Anglin & Walsh Co., Williamsbridge, N. Y.
Freesia Purity Bulbs.

For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.

NEW YORK BRANCH, 8-10 Bridge St.

Mr. B. Progressive, Florist,
Everywhere, U. S. A.

Dear Sir: It will be a decided advantage as regards prices and quality to place your order with us.

Soliciting your order through this ad cuts down the overhead selling expenses and you positively get lower prices and better quality. Our terms are liberal and are a guarantee that you get a square deal, all bulbs guaranteed true to name or money refunded.

Write us and upon request we will mail you our booklet giving prices f. o. b. New York or Chicago, and we also cheerfully furnish you with any information that may be desired. Those of our friends who will mail us a list of their requirements will find it has paid them to do so.

Awaiting to hear from you at your pleasure, we remain,
Yours very truly,

Westerbeek & Klyn.

Sassenheim, Holland.

Write to WESTERBEEK & KLYNN, 14 STONE ST., NEW YORK, N. Y.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. J. Goddard, Framingham Centre, Mass.
Crimson Carnation Doris.

SURPLUS CARNATIONS, strong and healthy: 1,300 Enchantress; 450 Beacon; 150 Philadelphia; 350 White Wonder; 300 White Perfection; \$5.00 per hundred, \$45.00 per thousand. SAMUEL KINDER & BRO., Bristol, R. I.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.

Pompon Chrysanthemums.

For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.

For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Emma, a Garza Anemone, Double
Pompon, pale pink.

DAHLIAS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

ORDERS BOOKED ANYTIME

For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Thomas Roland, Nabant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

EUONYMUS RADICANS

Euonymus Radicans. Several thousand, from rooted cuttings to sturdy plants four and five years old. This is a large-leaf, quick growing variety of Radicans. It originated in this town and is extremely desirable. Price and sample plants on application. F. E. PALMER, INC., Brookline, Mass.

FERNS

A. M. Davenport, Watertown, Mass.
Ferns in Flats.
For page see List of Advertisers.

For List of Advertisers See Page 275

FERNS—Continued

R. Vincent, Jr., & Sons Co., White Marsh, Maryland.
Boston Ferns.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FLORISTS' PLANT STOCK

Aaglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FREESIAS

August Rolker & Sons, New York City.
Rainbow and Purity Freesias.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums S. A. Nutt, rooted cuttings,
\$8.00 per 1,000; 2 1/4 in., \$15.00 per 1,000.
First class stock. Cash. FRANK LEITH
& SON, Haverhill, Mass.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset,
Boston.
Pecky Cypress.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

John C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION—Con.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Hitchings & Co., New York City.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

Metropolitan Material Co., Brooklyn, N. Y.

A. T. Stearns Lumber Co., Boston, Mass.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit,
Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

Pallades Nurseries, Inc., Sparkill, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Mt. Desert Nurseries, Bar Harbor, Me.
Rock and Wall Garden Plants.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co.,
Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset, Mass.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

INSECTICIDES

Hammond's Paint & Slug Shot Works,
Beacon, N. Y.
Hammond's Thrup Juice No. 2.
For page see List of Advertisers.

Aphine Manufacturing Co., Madison, N. J.
Aphine.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

The Plantlife Co., Inc., New York City.

IRIS

John Lewis Childs, Flowerfield, N. Y.
German Iris.
For page see List of Advertisers.

Albert Victor Pallida, best cutting va-
riety, \$1.00 per 10, \$8.00 per 100, \$50.00 per
1000. HENRY C. ECKERT, Belleville, Ill.

LILY BULBS

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Lilium Harrisii Bulbs.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hobmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

LOPEZIAS

Lopezia racemosa, a very net Xmas plant
covered with thousands of red flowers from
November until May. Out of 2-in. 3c., 4-in.
very bushy, 7c.

EMIL BAUDISCH,

753 Hamilton Ave., North Bergen, N. J.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.,
Hartboro, Pa.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NUBERRY STOCK

R. & J. Farquhar & Co., Boston, Mass.
Trees.
For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Paul de Nave, Fall River, Mass.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

PALMS

August Rolker & Sons, New York City.
For page see List of Advertisers.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

French Peonies can be shipped with celerity and security via Bordeaux-New York. Catalogues free. DESSERT, Peony Specialist, Chenonceaux (I. & L.), France.

Get the rare ones, true stock. Le Cygne, Solange, Tourangelle, Mme. Jules Dessert, Mons. Martin Cabuzac, La France, Rosa Bonheur, Mignon, Therese, Germain Bigot, Primevere, La Fayette, Eugene Verdier. Send for list. D. W. C. RUFF, Buena Vista Gardens, St. Paul, Minn.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company, N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

POINSETTIAS

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

M. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

ROSES—Continued

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS. THE CONARD & JONES COMPANY, WEST GROVE, PA.

ROSE STAKES

The Carnation Support Co.,
Connersville, Ind.
For page see List of Advertisers.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Florists' Flower Seed for Present Sowing.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Mignonette, Improved Eclipse.
For page see List of Advertisers.

Roman J. Irwin, New York City.
New Crop Florists' Seeds.
For page see List of Advertisers.

Fottler, Flske, Rawson Co., Boston, Mass.
Seeds for the Florist.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

The Leo Nlessen Co., Philadelphia, Pa.

STRAWBERRY PLANTS

Wilfrid Wheeler, Concord, Mass.
Pot Grown Strawberry Plants.

SWEET PEA SEED

Arthur T. Boddington Co., New York City.
Winter Flowering Spencer Sweet Peas.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet Peas.

For page see List of Advertisers.

Stumpp & Walter Co., New York City.
Early Flowering Sweet Peas.
For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE WORKS, 264 Randolph St., Detroit, Mich.

XMAS PEPPERS

A. L. Miller, Jamaica, N. Y.
For page see List of Advertisers.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 230-232 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 2 Winthrop Sq.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 23 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 493 Washington St.
For page see List of Advertisers.

For List of Advertisers See Page 275

WHOLESALE FLORISTS—
Chicago

Poehlmann Bros. Co., Morton Ave., Ill.
For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 264-266
Rauldolph St.
For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
For page see List of Advertisers.

Hentz & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Traendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

Woodrow & Marketos, 37 and 39 W. 28th St.
For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 53 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Guttman & Reynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunther Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

George W. Crawbuck Co., 57 West 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ransstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 21 Stone St.
For page see List of Advertisers.

WHOLESALE FLORISTS—
Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.

New Offers In This Issue**AMERICAN BEAUTIES.**

The Leo Niessen Co., Philadelphia, Pa.
For page see List of Advertisers.

BOSTON FERNS.

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

CARNATION SUPPORTS.

The Carnation Support Co., Connersville,
Ind.
For page see List of Advertisers.

**FIELD GROWN CARNATION
PLANTS.**

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

FOR IMMEDIATE SHIPMENT.

Lilum Harrisii, Paper White Grandi-
flora, Roman Hyacinths, Freesias,
Cold Storage Giganteum, also
Fresh Giganteum.
Ralph M. Ward & Co., New York City.
For page see List of Advertisers.

FRENCH AND DUTCH BULBS.

American Bulb Co., Chicago, Ill.
For page see List of Advertisers.

GIGANTIC CYCLAMEN.

Arthur T. Boddington Co., Inc., New York
City.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION.

S. Jacobs & Sons Co., Brooklyn, N. Y.
For page see List of Advertisers.

MICHELL'S FLOWER SEED.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

MIGNONETTE.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

NURSERY STOCK.

August Rolker & Sons, New York City.
For page see List of Advertisers.

WHOLESALE SEED GROWERS.

Kelway & Son, Langport, England.
For page see List of Advertisers.

THE NUT-GROWER

The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

WANTS, FOR SALE, Etc.**HELP WANTED**

WANTED: Clerk in Florist's store in
suburb of Boston. Must have had experi-
ence in selling, designing and decorating.
References required. Reply to "P. F.,"
HORTICULTURE.

FOREMAN WANTED to take entire
charge of greenhouse establishment near
Boston, 12,000 feet of glass; grows variety
of stock. Good wages. Married man
with small family. "A. B. C. Co.," Horti-
culture.

SITUATIONS WANTED

Gardener with first-class references, 30
years old, married, no children. Experi-
ence in and outdoors on well-known private
places. Address "R. S.," care HORTICUL-
TURE, Boston.

SITUATION WANTED—Dutchman, 29
years, married, one in family. First Class
Grafter and Propagator of Roses, Rhodo-
dendrons, Azaleas and General Nursery-
stock, 14 years' thorough experience in
grafting and can grow good stock. Kindly
state wages and particulars in first letter.
Care of A. KOLOS & CO., Nurserymen,
14 Stone St., New York.

FOR SALE

FOR SALE—One 6-inch Castle Circu-
lator complete with motor, one 6-inch
Blower for forced draught; 2½, 3 and 4-
inch gate valves. Write if interested.
CHAS. H. RICE, Bedford St., Lexington,
Mass.

TO RENT, LEASE OR FOR SALE—Six
greenhouses and one acre land. For par-
ticulars write FREDERICK S. FOLL-
WELL, 24 Charles St., Pittsfield, Mass.

MISCELLANEOUS

WANTED TO LEASE, immediately, with
privilege of purchase, about 12,000-15,000
feet of glass. Easy reach of Boston pre-
ferred. Particulars to EDE, Willow Street
Greenhouses, West Roxbury, Mass.

**TREES, SHRUBS, VINES and
HERBACEOUS PERENNIALS**

By JOHN KIRKEGAARD

Formerly Assistant to Director of the Royal
Botanical Gardens, Copenhagen, Denmark.
Latterly Twenty Years in American For-
estry and Botanical Work.

Assisted by DR. H. T. FERNALD,
Professor of Entomology Massachusetts
Agricultural College and Entomologist,
Massachusetts Agricultural Experiment
Station.

and PROF. E. A. WHITE,

Professor of Floriculture, New York State
College of Agriculture at Cornell Univer-
sity.

A Great Book A Beautiful Book
A Comprehensive Book
A Practical Book By Practical Men
There Is No Other Book Like It

410 Pages. Planting Plans. Tabular De-
scription and Classification of Species. 59
Full-Page Illustrations in Tones. Authorita-
tive Articles on Many Subjects.

New Edition

BEAUTIFULLY BOUND IN CLOTH

Price only \$2.50 net. Mailing
Price, \$2.71. Money-Back
Guarantee

Order it from HORTICULTURE
147 Summer St., Boston

In writing to Advertisers kindly mention Horticulture

CLUBS AND SOCIETIES

CHRYSANTHEMUM SOCIETY OF AMERICA.

Special prizes to be awarded at the annual exhibition, Philadelphia, November 8th, 1916.

Class A—C. S. A. Silver Cup for the best seedling not disseminated—6 blooms one variety on long stems.

Class B—C. S. A. Silver Cup for the best display of Pompons, 10 vases, 10 varieties, 6 sprays not less than 18 inches long to a vase and 10 vases of 12 single-stems, disbudded, not less than 18-inch stems.

Class C—President's Cup, value \$25, for the best 10 blooms any one variety of Chrysanthemums on long stems. Offered by William Kleinheinz, President C. S. A.

Class D—Henry A. Dreer Prize, \$10.00, for the best 10 blooms, one variety, on long stems, white.

Class E—Hosea Waterer Prize, \$10.00, for the best 10 blooms, one variety, on long stems, yellow.

Class F—Philip J. Foley Prize, \$10.00, for the best 10 blooms, one variety, on long stems, pink.

Class G—Robert Craig Co. Prizes, \$15.00 and \$10.00, for vase 50 sprays Pompons on long stems.

Class H—Henry F. Michell Co. Cup, value \$25.00, for the best vase of 25 Chrysanthemums on long stems, five or more varieties.

Class I—Henry F. Michell Co., Gold, Silver and Bronze Medals, for 12 blooms, 12 varieties, short stems.

Class J—Chas. H. Totty Prizes, \$15.00 and \$10.00 for six flowers Wm. Rigby Chrysanthemum.

Class K—E. G. Hill Prizes, \$15.00 and \$10.00 for 10 blooms introductions of 1916, not less than 5 varieties, on long stems.

Class L—Elmer D. Smith Prizes, \$10.00 and \$5.00 for the best 12 blooms of Artista. Open to private gardeners only.

Class M—Harry E. Converse Prize, for the best 6 blooms of Chrysanthemum Harry E. Converse on long stems.

Class N—Lord & Burnham Co., Gold Watch or Gold Medal, for 3 varieties, 6 blooms of each on long stems. Open to private gardeners only.

Class O—Wells-Totty Gold, Silver and Bronze Medals, for 3 blooms "Yellow Turner."

Class P—Hitchings & Co. Cup, for 10 blooms red or crimson, one variety, on long stems.

Class Q—National Association of Gardeners Silver Medal, for 6 blooms, 6 varieties, long stems, in one vase. Open to members of The National Association of Gardeners only.

Entries must be made to David Rust, Secretary, Penn. Horticultural Society, Phila.

CHAS. W. JOHNSON, Secretary.

LANCASTER COUNTY FLORISTS' CLUB.

A regular meeting of the club was held on the 10th, one week previous to our regular date. In order to be consistent and follow the calendar I am not reporting it until the proper time. This meeting was called for the mapping out of plans for the Flower Show, November 9, 10 and 11, and if the number of members present are any indication of the enthusiasm we will have for the show then its success is assured.

It was decided to make a great effort to get a large display from the amateurs and to this end special prizes will be offered for both out door stock and for that grown under glass. In the trade there will be no direct competition but several medals

COMING EXHIBITIONS.

Sept. 2-9, Cleveland.—Industrial Exposition and Fair, Edgewater Park.

Sept. 12-13, Providence, R. I.—Rhode Island Horticultural Society, Narragansett Hotel.

Sept. 11-16, Syracuse, N. Y.—Seventy-Sixth Annual New York State Fair.

and special prizes will be offered for the best collections, etc.

As half of the net proceeds are to be given toward the erection of an armory for Lancaster it is proposed to work up publicity along these lines and Albert M. Herr was delegated to attend to the publicity end of the show. Mr. Rosnosky for the H. F. Michell Co. gave us a few very useful pointers. T. J. Nolan, the other visitor at this meeting, remained diplomatically quiet when a question was read from the question box asking what influence the great increase of glass would have on the market next winter.

The writer suggested that we arrange for a trip to Whitmarsh, Md., to see our friend Richard Vincent, Jr. and his establishment and it was decided to leave the arrangement for the trip to the maker of the suggestion and to make a more complete report at the next meeting. This trip will be by automobile if enough machines can be secured, or by train if unable to secure enough machines. Ira Landis displayed some beautiful gladioli at this meeting. This exhibition end of our meetings is falling down and should be looked after as it adds 40 per cent to a meeting to know that you are going to see some new stock or to see some old stock especially well done.

A. M. HERR.

SEWICKLEY HORTICULTURAL SOCIETY.

The monthly meeting of this society was held at Wessenauer's Flower Store Monday, Aug. 14, with a good attendance. A hall at 504 Broad street having been engaged the society in the future will meet on the second Tuesday of each month at above address. The constitution and by-laws were drawn up and passed on. The members unanimously agreed to stage an exhibition of flowers, fruits and vegetables on Friday and Saturday, Sept. 22 and 23. Mr. Wessenauer has placed his show and greenhouse at the disposal of the Society for this event and it is to be hoped the members will seize this opportunity to show the people of Sewickley samples of their skill. It was also agreed to hold a picnic on Wednesday afternoon, Aug. 30. Excellent progress is being made by this Society and a large number of new members is looked for at the next meeting.

M. CURRAN, Secy.

LADIES' SOCIETY OF AMERICAN FLORISTS.

The Ladies Society of American Florists held their annual meeting in the parlors of the Rice Hotel, Houston, on Wednesday, August 16.

The second vice-president, Mrs. R. C. Kerr, of Houston, presided in the absence of the president, Mrs. John Vallance, of Oakland, Calif., who sent a letter of regret. The first vice-president, Mrs. W. W. Coles, of Kokoma, Ind., was not present. In the absence of Mrs. George Smith, of Cleveland, Miss Pearl B. Fulmer, of Des Moines, Iowa, was elected secretary *pro tem*, and read letters of regret from Mrs. Smith who could not attend because of the illness of her husband. Mrs. A. M. Herr, Lancaster, Pa., treasurer, was not in attendance because she was unable to take so long a trip. Minutes were read and approved. Treasurer's report was read and approved. The election of officers resulted as follows:

President, Miss Pearl B. Fulmer, Des Moines, Iowa; first vice-president, Mrs. R. C. Kerr, Houston, Tex.; second vice-president, Mrs. Julius Roehrs, Rutherford, N. J.; secretary, Mrs. Chas. H. Maynard, Akron, O.; treasurer, Mrs. A. M. Herr, Lancaster, Pa.; directors: Mrs. Joseph A. Manda, New Jersey; Mrs. J. F. Wilcox, Iowa; Mrs. George H. Cooke, Washington, D. C.; Mrs. J. G. Hancock, Illinois; Mrs. Fred Howard, California; Mrs. Patrick Welch, Massachusetts.

FLORISTS ARE INVITED TO CLEVELAND.

We desire to extend an invitation to all Florists in the central states to come to Cleveland between September 2nd and 9th to see the First Early Fall Open Air Flower Show ever staged in Cleveland.

This being about the last week before the actual Fall season begins for retailers, as well as growers and wholesalers, we look for a large attendance from western New York, Pennsylvania, Michigan, Indiana and all of Ohio.

We call to the attention of every one the pleasant triangle water trip taking in Cleveland, Detroit and Buffalo, being three nights on the water and spending as much time as you desire in each of these live lake cities.

In addition to the Flower Show we offer some thrilling attractions, among them being Miss Marjorie Stinson, 19-year-old girl aviator, who will fly twice each day. A 23-act Open Air Hippodrome filled with thrills. A fine exhibit of live stock from O. C. Barber's famous "Anna Dean" Farm, valued at \$100,000. Seven Industrial Shows in addition to the Flower Show Section.

This will really be the biggest event Cleveland has seen for a long time. We want you to come. We will look for you. Make up a party and take this last jaunt of the season.

(Signed) The Entire Committee: Frank A. Friedley, H. P. Knoble, Chris. B. Wilhelmy, E. A. Bause, O. P. Blackman, Geo. Jacques, Robert Weeks, Timothy Smith, Chairman.

GLADIOLUS SOCIETY OF OHIO.

The Fourth Exhibition and Flower Show of this Society was held in the Assembly rooms of the Hollenden Hotel, Cleveland, O., on Friday and Saturday, Aug. 18-19. The season has been in many ways a most unfavorable one, and the growers were prepared for a scanty exhibit, but were very agreeably surprised at the showing of splendid gladioli that graced the benches. While not equal in magnitude or numbers to that of last year, it was quite as good as that of two years ago, which all remember as a very gratifying success. Many fine displays were made, and probably the most striking feature of the exhibits was the fine new varieties and seedlings which indicate the spirit of progress in this line. The list of awards is given below:

Best vase Red, James F. Rychlik; 2d, same. Best vase of Pink, Guy Bate; 2d, Madison Cooper. Best vase White, James F. Rychlik; 2d, Madison Cooper. Best vase Yellow, James F. Rychlik; 2d, Madison Cooper. Best vase any other color, James F. Rychlik; 2d, Nag-ir-roc Gardens.

Most Meritorious Display, Munsell & Harvey; 2d, Mrs. R. E. Huntington. Best vase, fifty spikes, Mrs. R. E. Huntington. Best new seedling not yet disseminated, Joe Coleman; 2d, Joe Coleman. Society's Certificate of Merit, Munsell & Harvey. Best vase any color, James F. Rychlik; 2d, Bidwell & Fobes. Best vase Glory, Bidwell & Fobes. Best Primulins Hybrids, Madison Cooper; 2d, Nag-ir-roc Gardens. Best vase any Red variety, James F. Rychlik. Best new White or Light Seedling, Munsell & Harvey. Most meritorious Gladiolus never before shown here, Joe Coleman.

The Silver Cups were won by Joe Coleman and James F. Rychlik.

Owing to the difficulty of securing a quorum, the business meeting and election of officers was postponed to a called meeting in the future. The table decorations by The Jones, Russell Co., The J. M. Gasser Co., and Knoble Brothers were very effective and pleasing. Also the basket displays of Knoble Brothers, Paul Hahn, A. M. Albrecht and Ernest Wilhelmy were given special notice by the judges, though not entered for competition. Altogether the exhibition was very satisfactory and with a balance in the treasury the society is encouraged to continue its work.

WILBUR A. CHRISTY.
Sec'y and Treas.

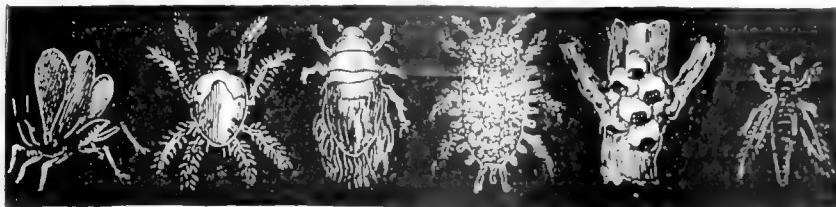
THE "INTERNATIONAL" FOR 1917.

The first preliminary schedule of the International Flower Show at New York, to be held on March 16-23, 1917, has been sent out this week. As heretofore, the exhibition will be held under the auspices of the Horticultural Society of New York and the New York Florists' Club. There are some stunning prizes in all the classes. One of the first things John Young jumped into on his return from Houston was the active work on this big affair, and he found President Havemeyer ready and waiting for him. Clear the track.

Hammond's Thrip Juice No. 2

REGISTERED

A Contact Insecticide, Useful and Reliable, Used for 30 Years in Green-houses, and on Plants, Grape Vines, Trees and Shrubs



Some common Sucking Insects, magnified.

HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.

DURING RECESS.

Albany Florists' Club.

The Albany Florists' Club had a glorious outing and clambake at Henkes, Grill, Watervleit, N. Y., on Saturday, August 19. There were 164 people present, of whom fully one-half were ladies. The organization of the affair was simply invulnerable. As a caterer and chef Fred. Henkes is a



THOMAS TRACEY.

President, Albany Florists' Club.

wonder and together with Louis Shaef-fer, chairman of entertainment makes a combination hard to equal. President Tom Tracey made an intrepid head waiter, and his brother, Ed. Tracey, as caretaker and purveyor for the ladies took to his job as a duck takes to water. Frank Conly, of The Rosary, was the chief dispenser of soda water and accordingly popular, but the bright star was F. A. Danker, treasurer, who kept his eye and his fingers on the money. Robert Davison, secretary, made a record as a phenomenal eater, and R. J. Irwin and wife, who were visitors from New York, experienced the surprise of their life. Another visitor who took in all there was to enjoy was Jas. Sneider, violet grower of Rhinebeck. There



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUMIGINE, VERMINE and SOA-LINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON

were also a lot of Troy visitors. The clams, the clams, oh, where are they?

The Connecticut Nurserymen's Association.

The annual summer outing of The Connecticut Nurserymen's Association was held Aug. 16th. The members motored to Riverside Park, a suburb of Springfield, Mass., about fifty being in the party.

The baseball game was called at 11 A. M., nines being chosen and captained by Messrs. Campbell and Bras-sill, named as the "Ornamentals" and



NIKOTEEN
For Spraying
APHIS PUNK
For Fumigating
Ask Your Dealer For It.
NIKOTINE MFG. CO.
ST. LOUIS

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

"Big Stock" respectively. The "Big Stock" nine proved true to name, taking the "Ornamentals" into camp to the tune of 20 to 9, owing, perhaps, to their refusal to "be out" until four batters were retired. The ball game between the Lady Nines proved very interesting and the score will not be published—for lack of space.

Dinner was served by the Park Management, after which the amusements of the Park were enjoyed, shop talked, and everyone voted it one of the most enjoyable outings the Association ever held, and all look forward to the one next year.

**GREENHOUSES BUILDING OR
CONTEMPLATED.**

Bergen, N. Y.—Roy St. John, one house.

Columbus, O.—S. F. Stephens & Son, house 35x110.

St. Paul, Minn.—H. E. Philpott, three houses, each 22x120.

Rochester, N. Y.—E. C. Colgrove, Charles street, house 20x100.

Dayton, O.—City Greenhouses, Otawa street, additions and alterations.

Boston, Mass.—Wm. C. Bowditch, George street, additions and alterations.

Philadelphia, Pa.—Aschmann Bros., Cottman street, Lord & Burnham house 28x151.

Oak Park, Ill.—Berwyn Floral Shop, 1240 Wesley avenue, conservatory 40x100, completed.

Providence, R. I.—Moshassuck Cemetery, one house. Hogan, the florist, carnation house 28x100.

Terre Haute, Ind.—Davis Gardens, house 72x250. Wm. Dinkle, College street, three 100-ft. houses.

Houston, Tex.—Judge J. L. Autrey, 3 Courtlandt street, one house; John W. Sanders, Yoakum & Lovett boulevards, one house; Wright's Flower Garden, one house, all Lord & Burnham construction.

PATENT GRANTED.

1,194,608. Composition and Process for Treating Plants. Clarence W. Eastman, Great Falls, Mont.

Elmer Rawlings acted as judge in the flower show given by the Ladies' Aid Society in Olean, N. Y., on August 15.

**STANDARD FLOWER
POTS**

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts., Washington, D. C.

**Society of American
Florists**

(Continued from page 280)

**LUNCHEON WITH HOUSTON
ROTARY CLUB.**

A pleasing courtesy extended to the visiting florists was the luncheon tendered them by the Houston Rotary Club at their regular weekly dinner, Thursday noon, August 17th. President-elect Kerr being a prominent member of the Rotary Club it was a joint courtesy to him as well as to the visiting florists that this invitation was extended. A most enjoyable time was had. After the tables had been cleared and the inviting menu disposed of, the retiring President of the club invited attention, and said that as an addition to the usual roll-call each member and visiting florist would be asked to rise in turn, announce his name and state his favorite flower. There were some 100 members of the Rotary Club and 110 visiting florists in attendance, and out of these 52 answered that they preferred the rose, giving various varieties, led by the American Beauty. For the rest there was an amazing variety of choice.

Speeches were made by a number of visitors, the first on the list being George Asmus who handed to Vice-President Kerr the \$150 in gold which he had won by securing the largest number of new members for the S. A. F. during the past year, 83 new members having been credited to his efforts. W. F. Gude followed with some animated remarks and President MacRorie made the closing speech with characteristic cordiality.

We learn that the trade exhibitors who took a business chance and went to Houston made a very gratifying record. Florists' supply men and greenhouse builders all did a fine business. M. C. Wright who represented Lord & Burnham Company took several good orders for new construction. We have yet to hear of one exhibitor who was dissatisfied.

PERSONAL.

Harold L. Chadwick, florist, of Houlton, Me., and Miss Nell M. Johnston, were married at the home of the bride, Cambridge, Ohio, on August 2d.

Montague Free, of the Brooklyn Botanical Garden, and Miss Violette Caroline Thayer, of Brooklyn, N. Y., were married on Tuesday, August 22.

Harry A. Barnard, representative of Stuart Low & Co., of Bush Hill Park, England, is on his way, on the S. S. Adriatic, to again visit his many business friends on this side of the Atlantic. He is due to arrive in New York about September 1 and thereafter may be found or addressed at the Hotel Albert, New York City.

**NON-KINK WOVEN HOSE**

In any length (one piece) with couplings, 14c. per foot. Unequaled at the price. Remnants, shorter than 50 feet, 10c. per foot, with couplings.

**HOSE VALVE—70c.**

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

**Dreer's Peerless
Glazing Points**

For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.

Samples free.

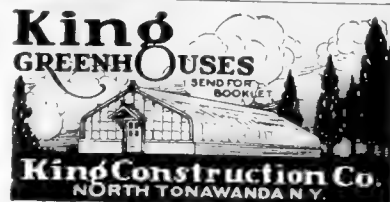
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.FULL
SIZE
No 2**DREER'S**

Florist Specialties,
New Brand. New Style.
Hose "RIVERTON."
Furnished in lengths up to 500 ft. without seam or joint.

THE HOSE for the FLORIST

1/2-inch, per ft., 35 c.
Reel of 500 ft., " 14 1/2 c.
2 Reels, 1000 ft., " 14 c.
1/2-inch, " 13 1/2 c.
Reels, 500 ft., " 12 1/2 c.

Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

**THE FLORISTS' HAIL ASSOCIATION**

Is a mutual organization, insuring greenhouse glass against hail. Both commercial and private establishments are accepted. For particulars, address

John G. Baler, Sec., Saddle River, N. J.
Insure Now.

GET OUR CATALOGUE

On Ventilating Apparatus and Greenhouse Fittings

ADVANCE CO., RICHMOND, IND.

FOLEY MATERIALS

ARE THE BEST FOR

**Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES**

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street,

CHICAGO, ILL.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

**KROESCHELL
BOILER**

SEND FOR CATALOGUE



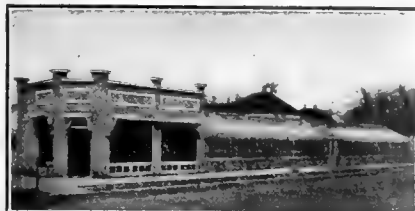
KROESCHELL BROS. CO.
406 W. Erie St. Chicago, Ill.

GLASS

**GREENHOUSE MATERIAL
HOT-BED SASHES**

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.



**EVERYTHING FOR THE GREENHOUSE
John C. Moninger Company**

CHICAGO NEW YORK
922 Blackhawk St. 812 Marbridge Bldg.
CINCINNATI, 2314 Union Central Bldg.

MASTICA



For Greenhouse
Glazing
USE IT NOW

F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

PATENTS
Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

A RANGE of full iron frame curved eave Jacobs' greenhouses of an elaborate and decorative design, are now under construction on the estate of J. Insley Blair, at Tuxedo Park, New York.

The specifications by Carrere & Hastings, the architects, called for the very best and most modern equipment. The range, which is so designed that most any flower or plant can be grown, will be heated throughout by hot water and steam with vapor system. It will have both hot and cold water irrigation; also a liquid fertilizing system. Jacobs' construction, material, workmanship, responsibility and price, were the main factors in our securing the contract.

**No Job Is Too Large Or Too
Small For Us To Go After**

**WE KNOW WHAT TO DO
AND WHAT NOT TO DO**

What's more we can save money
for you

S. Jacobs & Sons

Greenhouse Builders

1359-1385 Flushing Avenue
BROOKLYN, N. Y.

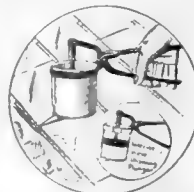


HOTBED SASH at 75c. each
Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.
Double Light Sash up to \$4.00.

We carry a large stock of all sizes.
Write us for estimate.

S. JACOBS & SONS
1359-1385 Flushing Avenue BROOKLYN, N. Y.



Will last a life-time.

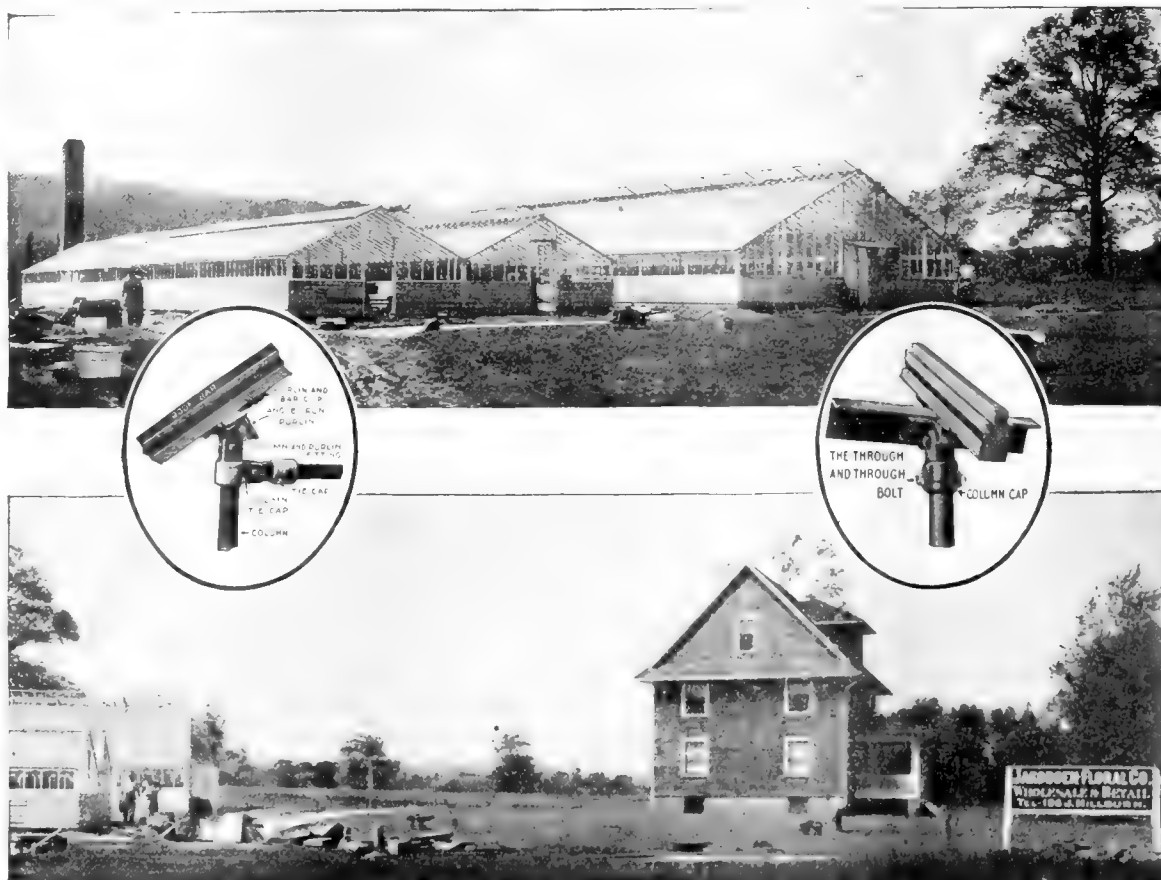
\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

Seal-tight liquid putty at \$1.25 per gallon.
METROPOLITAN MATERIAL CO.
1292-1414 Metropolitan Ave., Brooklyn, N. Y.

Evans 20th Century Arm
Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.
JOHN A. EVANS CO.
Richmond, Ind.

In writing to Advertisers kindly mention Horticulture



Jakobsen Floral Co., Build More Half Iron Frame Houses

IF you know Mr. Jakobsen, you know he knows the difference between being a hustler and thinking he is a hustler; and being a hustler and having no use for a hustler.

Jakobsen is a hustler—the kind that takes off his coat and jumps right into the work, just as if it was the jolliest, most picnic-like thing that ever happened.

You can't stop such men; because they never stop short of success; and then they don't stop; but keep on building a larger success.

Mr. Jakobsen started with one of our Half Iron

Frame houses, and is adding to his range as success permits.

The company has ample land for the many future houses that are bound to come. Space there is for some good husky Iron Frame ones.

The present ones are the best, next to the Iron Frame, that money buys.

Our 30 year old bolted-through-and-through-fittings, are used on all columns and cross ties.

Next year building costs won't be any lower—looks as if they would be higher. Now's the time to build.

You know we go anywhere to talk business. Or do business.

Hitchings and Company

NEW YORK
1170 Broadway

BOSTON
49 Federal Street

PHILADELPHIA
40 S. 15th Street

General Offices and Factory: Elizabeth, N. J.

Vol. XXIV
No. 10
SEPT. 2
1916

HORTICULTURE



Miscanthus sinensis (*Eulalia japonica*)

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription, \$1.00

Attention, Mr. Florist!!!**Order Now!!!**

HOGEWONING'S

Extra Selected Dutch-grown Bulbs for Fall Planting

ALL BULBS GUARANTEED TRUE TO NAME AND DESCRIPTION

SINGLE EARLY TULIP BULBS

	100	1000
Artus. Dark red.....	\$0.60	\$5.50
Couleur Cardinal. Purplish red	1.20	10.00
Crimson King. Scarlet.....	.70	6.00
La Belle Alliance. Scarlet...	.90	8.00
Vermilion Brilliant. Scarlet..	1.20	10.00
La Reine. White, pink shaded	.60	5.00
L'Immaculee. Pure white....	.60	5.00
Cottage Maid. Striped pink...	.60	5.00
Rose Griedelin. Pink.....	.60	5.00
Pink Beauty. Extra fine.....	1.80	16.00
Chrysolora. Pure yellow.....	.70	6.00
Mon Tresor. Pure yellow; early .....	.90	8.00
Yellow Prince. Yellow, shaded red .....	.70	6.00
Keizerskroon. Brilliant red.	1.40	12.00
Prince of Austria. Deep orange	.90	8.00
Proserpine. Cherry rose....	1.40	12.00
Mixed. All colors; extra fine..	.60	5.00
Separate Colors. Extra fine...	.65	5.50

DOUBLE EARLY TULIP BULBS

	100	1000
Imperator Rubrorum. Red...	\$1.40	\$12.00
Murillo. Pink; very fine....	.80	7.00
Couronne d'Or. Deep yellow; extra	1.40	12.00
Titian. Red, edged yellow...	1.00	9.00

DARWIN TULIP BULBS

	100	1000
Allard Pierson. Dark brown..	\$1.20	\$10.00
Baronne de la Tonnaye. Rose.	2.00	18.00
Clara Butt. Bright rose; extra	1.10	10.00
Gretchen. Soft salmon rose.	.90	8.00
Kate Greenaway. White, with ilac	1.20	10.00
Loveliness. Satiny rose....	1.40	12.00
Pride of Haarlem. Cherry red.	1.40	12.00
Orion. Bright red, large flower	1.40	12.00

HYACINTH BULBS—First Size

For Forcing and All Other Purposes

	100	1000
Gertrude. Rose pink.....	\$3.80	\$34.00
Gigantea. Light pink.....	3.80	34.00
Robert Steiger. Deep crimson	3.80	34.00
Grandeur a Merveille. Blush..	3.80	34.00

	100	1000
La Grandesse. Pure white....	\$3.80	\$34.00
L'Innocence. Pure white....	3.80	34.00
Grand Maitre. Porcelain blue.	3.80	34.00
King of the Blues. Dark blue.	3.80	34.00
Queen of the Blues. Light blue	3.80	34.00
King of the Yellows. Yellow.	3.80	34.00

HYACINTH BULBS,—Second Size

	100	1000
In above named 10 varieties.	\$2.50	\$22.00

MINIATURE HYACINTH BULBS

	100	1000
In 6 different colors.....	\$1.40	\$12.00

NARCISSUS BULBS

	100	1000
Emperor. Mother bulbs....	\$1.40	\$12.00
Emperor. Single nose.....	.80	7.00
Golden Spur. Mother bulbs...	1.40	12.00
Golden Spur. Single nose....	.80	7.00
Bicolor Victoria. Mother bulbs	1.40	12.00
Bicolor Victoria. Single nose..	.80	7.00
Von Sion. Mother bulbs.....	1.40	12.00
Von Sion. Single nose.....	.80	7.00

NARCISSUS PAPER WHITE GRANDIFLORA, 13 cm. and up, \$10.00 per 1000.
(250 bulbs of any one variety charged at the 1000 rate.)

Prices are F. O. B. New York, Freight, Duty, Packing and all other expenses paid.

Varieties not mentioned above, quoted on application. Special prices for large quantities of any one variety.
3 per cent. may be deducted for cash with order.**HOGEWONING & SONS, Bulb Growers**

Branch Office, 32 Broadway, New York

RYNSBURG, HOLLAND

STUART LOW CO.

ROYAL NURSERIES

Bush Hill Park, ENFIELD, ENGLAND

CYCLAMEN—Stuart Low's Superb Strain, 1916 Crop just Harvested—Low's Salmon King, Giant White Phoenix, Vulcan, Mrs. Buckston, Princess May, etc.

Also Specialists in ORCHIDS, ACACIAS, GRAPE VINES, FRUIT TREES and ROSES.

Price List on Application.

During September and October any communications addressed to HARRY A. BARNARD, Hotel Albert, New York, will have prompt attention.

FERNS IN FLATS

Eight Best Varieties—200 Clumps to a Flat

\$2 00 per flat; 10 or more flats, \$1 90 each**A. M. DAVENPORT, Watertown, Mass.****ORCHIDS**

CONSERVATORY PLANTS

BEGONIAS

Lorraine, Cincinnati and Mrs. Peterson

JULIUS ROEHR'S CO.

Rutherford, N. J.

ORCHIDS

Just received a grand importation of Lycaste Skinnerii. We also carry a choice line of established plants at all times. Write for prices now.

PAUL DE NAVE

ORCHID GROWER.

Tel. Connection. FALL RIVER, MASS.

FREESIA PURITY BULBS

Florists' Forcing Size, ½ to ¾ inch

\$7.50 per 1000 High Grade Bulbs**ANGLIN & WALSH CO.**

Williamsbridge, N. Y.

Large Xmas Peppers

Also BIRD'S EYE PEPPERS

Exceptionally Fine 4 Inch Stock at
\$8.00 per Hundred.

ALSO

ASPARAGUS PLUMOSA

4 in. pots at \$8.00 per Hundred

Extra Fine Stock for Planting Out

A. L. MILLER

JAMAICA, N. Y.

WHITMANII IMPROVED—\$5 per 100, \$40

per 1000.

WHITMANII COMPACTA—\$5 per 100, \$40

per 1000.

ROOSEVELTS—\$5 per 100, \$40 per 1000.

BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H.H. BARROWS & SON, Whitman, Mass.**OLDEST AUCTION
HOUSE****IN THE UNITED STATES**

Consignments Solicited

Elliott Auction Co

42 Vesey St., New York

REMEMBER!

If it's a Hardy Perennial or so called Old Fashion Flower worth growing, we have it in one shape and another the year round. We have the largest stock in this country, all made in America, and our prices

will average 75c. per doz., \$5.50 per 100.

Why say more here? Send for our Wholesale Price List of varieties and benefit from the opportunities this affords you. Address

PALISADES NURSERIES, Inc.

R. W. CLUCAS, Manager.

SPARKILL - - N. Y.

LILY BULBS**RALPH M. WARD & CO.**

71 MURRAY ST., NEW YORK

GERANIUMS

Alphonse Ricard, Beauto, Poltevine, S. A. Nutt, Gen'l Grant, Mad Buchner, Mad. Recamiers, Jean Vaud, Jean Oberle, Abbie Schaffer, Mad. Landry, La Fave, and other good kinds in 3 in. stock, at \$3.00 per 100, \$25.00 per 1000, 2 in. at \$2.00 per 100, \$15.00 per 1000. We have a large stock ready for immediate shipment and orders booked for future shipment.

BOSTON FERNS, 4-in., \$15.00 per 100; 7-in., \$6.00 per doz.; 8-in., \$1.00 each, \$9.00 per doz. Large plants in 11 and 13 inch pots from \$2.50 to \$5.00 each.

	2-in. 100	2-in. 1000	3-in. 100	3-in. 1000		2-in. 100	2-in. 1000	3-in. 100	3-in. 1000
ACALPHIA					HARDY ENGLISH IVY	\$2.00	\$18.50	\$3.00	\$25.00
ALTERNANTHERAS	2.00	18.50	3.00	25.00	LEMON VERBENAS	2.00	18.50	3.00	25.00
AGERATUM	2.00	18.50			LANTANAS	2.00	18.50		
ASPARAGUS SPRENGERI, extra strong			5.00		MOONVINES, White and Blue	2.00	18.50	3.00	25.00
BEGONIAS, Vernon	2.00	18.50			PARLOR IVY, S. Scandens	2.00	18.50	3.00	25.00
COLEUS	2.00	18.50	3.00	25.00	POMPON CHRYSANTHEMMS	2.00	18.50	3.00	25.00
CUPHEA, Phytocentra	2.00	18.50	3.00	25.00	SALVIA, Bonfire and Zurich	2.00	18.50	3.00	25.00
CELEBY, White Plume					SWAINSONA, White	2.00	18.50	3.00	25.00

CASH WITH ORDER.

R. VINCENT, Jr., & SONS CO.,

**WHITE MARSH,
MD.**

LILY OF THE VALLEY PIPS

Danish and German Stock

Booking Orders now for
1916 Crop

LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

CHAS. SCHWAKE & CO., Inc.

Valley

GERMAN, SWEDISH
AND DUTCH PIPS

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....335	Craig, Robt. Co.....308	Gude Bros. Co.....320	Lange, H. F. A.....321	Palmer, W. J. & Son.....321	Siggers & Siggers.....334
Albany Cut Flower Ex.....326	Crawback, Geo. W. Co.....327	Gunther Bros.....327	Lemon, Fred H. Co.....315	Park Floral Co.....320	Skidelsky, S. S. & Co.....319
Allen, J. K.....327	Crowell, Horace S.....331	Guttman & Raynor.....326	Leonard Seed Co.....319	Parshelsky Bros.....334	Smith, Elmer D. & Co.....317
American Bulb Co.....318	Dards.....320	Hall Association.....334	Lochner & Co.....307	Penn the Florist.....321	Smith, P. J.....326
Anderson, S. A.....321	Davenport, A. M.....306	Hammond Paint & Slug Shot Works.....332	Lord & Burnham Co.....336	Pennock-Meehan Co.....325	Smith & Fetters.....321
Anglin & Walsh.....306	Dreer, H. A.....308-333-334-335	Hart, Geo. B.....326	Low, Stuart Co.....306	Pierce Co., F. O.....335	Smith, W. & T. Nursery Co.....317
Aphine Mfg. Co.....332	Dorner, F. & Sons Co.....317	Henderson, A. & Co.....319	McHutchison & Co.....308	Pierson, A. N.....317	Smyth, Wm. J.....321
Badgley & Bishop, Inc.....326	Dunlop, John H.....321	Hentz & Nash.....326	McManus, Jas.....326	Pierson, F. R.....308	Stearns, A. T. Lumber Co.....335
Barrows & Son.....306	Dysart, R.....317	Hess & Swoboda.....321	McConnell, Alex.....320	Poehlmann Bros. Co.....324	Stump, G. E. M.....320
Bayersdorfer, H. & Co.....323	Eastern Chemical Co.....332	Hews, A. H. & Co.....333	MacNiff Horticultural Co.....308	Pratt, B. G. Co.....332	Thorburn, J. M. & Co.....319
Bay State Nurseries.....308	Edwards Folding Box Co.....324	Hill, E. G. Co.....324	Marshall, W. E. & Co.....319	Pulverized Manure Co.....332	Totty, Chas. H.....317
Bobbink & Atkins.....317	Edwards Folding Box Co.....324	Hill, D. Nursery Co.....308	Metropolitan Material Co.....334-335	Randall's Flower Shop.....320	Traendly & Schenck.....326
Boddington, A. T.....315	Elliott Auction Co.....306	Hogwoning & Sons.....306	Michell, H. F. Co.....319	Reed & Keller.....324	United Cut Flower Co.....327
Bolgiano & Son.....319	Ernest, W. H.....333	Holland Nurseries.....317	Michigan Cut Flower Ex.....324	Richards, G. H.....318	Valentine, J. A.....320
Breck, J. & Sons.....319	Esler, J. G.....334	Holm & Olson.....320	Millang, Chas.....326	Riedel & Meyer.....326	Vincent, R. Jr., & Sons Co.....307
Brettmeyer's J. Sons.....320	Evans, J. A. Co.....334	Irwin, R. J.....319	Miller, A. L.....306	Reid, Edw.....324	Wants, For Sale.....331
Budlong, J. A.....324	Eyres.....321	Jacobs, S. & Sons.....335	Moninger, J. C. Co.....335	Reuters.....321	Ward, R. M. & Co.....306
Bunyard, A. T.....320	Farquhar, R. & J. & Co.....319	Kasting, W. F. Co.....324	Murray, Samuel.....320	Robinson, H. M. & Co.....327	Weber, F. C.....321
Burnett Bros.....318	Foley Mfg. Co.....335	Keller, J. B. Sons.....320	National Nurserymen.....317	Robinson, H. M. & Co.....326	Weiss, Herman.....327
Burpee, W. A. & Co.....318	Ford, W. P.....326	Kerr, the Florist.....321	Nave, Paul de.....306	Roland, Thomas.....321	Welch's.....324
Carnation Support Co.....308	Ford, M. C.....326	Kervan Co.....326	Nicotine Mfg. Co.....332	Rolker, A. & Sons.....308	Welch Bros. Co.....324
Carter's Tested Seeds, Inc.....318	Fottler, Fiske Rawson Co.....319	King Construction Co.....334	Niessen, Leo Co.....324	Rosery, The.....320	Welch, Patrick.....327
Childs, John Lewis.....317	Froment, H. E.....326	Knoble Bros.....321	Nut Grower.....331	Schling, Max.....320	Wood Bros.....317
Clarke's D. Sons.....320	Galvin, Thos. F.....321	Kramer, F. H.....321	Ouwerkerk, P.....317	Schwake, Chas. Co.....307	Woodrow & Markos.....324
Claucas, R. W.....306	Gasser Co. J. M.....321	Kroeschel Bros.....334	Pallsades series.....306	Sharp, Partridge & Co.....334	Young, John & Co.....326
Coan, J. J.....327	Goddard, S. J.....317	Kuebler, W. H.....326		Sheridan, W. F.....326	Young & Nugent.....320
Cooke, Geo. H.....320	Graham, Adam & Son.....321			Siebrecht, Geo. C.....326	Zvolanek, Ant. C.....319
Cowee, W. J.....324	Grey, Thos. J. Co.....319			Siebrecht, W. R.....326	

**FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 328, 329, 330, 331**



The Glory Fern (*Adiantum Farleyense Gloriosa*)

Adiantum Farleyense Gloriosa

THE GLORY FERN or RUHM VON MORDRECHT

This splendid Fern which so closely resembles *Adiantum Farleyense* in appearance and which does not require the special skill and care in growing that is necessary to produce good plants of *A. Farleyense*, has quickly made a place for itself not only on account of the fact that it can be produced for little over half that of growing *Farleyense*, but also because either in a cut state or as plants used in decorative work, it will outlast the old variety ten to one, making it an available subject where *Farleyense* can not be used at all. Since its introduction some 5 or 6 years ago there has never been a supply large enough to meet the demand. With this in mind we have prepared this season an extra large stock, which is in prime condition and we now offer select

3 inch pots, \$2.00 per doz.; \$15.00 per 100; \$140.00 per 1000
4 inch pots, \$3.50 per doz.; \$25.00 per 100

For a Complete list of seasonable stock see our current Wholesale List.

The above offer is intended for the trade only.

HENRY A. DREER

714-716 Chestnut Street, PHILADELPHIA, PA.

HOLLAND GROWN BULBS

HYACINTHS, TULIPS, NARCISSUS, ROSE BUSHES, ETC.

Write for information about the *Mammoth Auction Sales* that we will hold during the coming Fall Season, of Holland's latest and choicest varieties

THE MacNIFF HORTICULTURAL COMPANY

52, 54 and 56 Vesey Street The Largest Horticultural Auction Rooms in the World NEW YORK CITY

LILY BULBS

Fall Shipment from Japan

Prices quoted F.O.B. New York, Chicago, Denver, San Francisco and London (Ont.)

Write for quotations stating quantity, variety and size required.

McHUTCHISON & CO. The "Importers"
95 Chambers St., New York

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, N. Y.

Rainbow Freesias

In pleasant harmonizing mixture of YELLOW, ORANGE, LAVENDER and PINK shades. For Florists' Storework these are the best and the latest addition. For closer description see August 19th HORTICULTURE, Page 258. Regular price \$5 per 100; \$40 per 1000. Send us TEN DOLLARS for a trial lot of 250 by mail.

FREESIA PURITY, true stock, first size at \$10 per 1000, so long as limited stock lasts.

AUGUST RÖLKER & SONS, 51 BARCLAY STREET, New York
or P. O. BOX 752

TREES

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties.

Sturdy, choice stock that can be depended upon. Send for catalog and special trade prices.

The Bay State Nurseries

North Abington
Mass.

SHRUBS

This New England soil and climate produces fine sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate.

In Stock ROSE STAKES

EXTRA STIFF No. 9 GALV. WIRE
4½ feet—\$13.05 per 1000

CARNATION SUPPORTS

\$18.00 per 1000 plants.

THE CARNATION SUPPORT CO., Connersville, Ind.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY.
Small, medium and large sizes supplied.
Price list now ready.

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers in America.
BOX 415, DUNDEE, ILL.

When writing to Advertisers kindly mention Horticulture

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toll, we ought to blame the culture, not the soil."—*Pope*

Ardisia crenulata

A careless hand at watering will quickly do lots of damage among the ardisias. Examine each pot carefully and only water where it is really needed. Any excess will cause loss of foliage even more quickly than an insufficient supply. The plants should be elevated so that they can get all possible light, and plenty of ventilation. In applying stimulants also use great care, for too much will color up plants with pale foliage. Do not crowd them. A good syringing early in the morning will help to keep them clean. Once in a while you may have to go over them with a sponge, using some good insecticide. Give all the sun they will stand without burning. This helps both berries and foliage to have high coloring.

Pansies for Winter Flowering

Pansies that were sown early in July will make fine plants to bench in a cool house. At about 45 degrees at night they will bloom all winter. These young seedlings may be planted in a frame that has been enriched and some leaf mold and sand added. Give them about 6 inches apart each way; they can stay here until October when they can be moved into winter quarters. When planting in the house give them 6-inch in the rows and about 8 inches between the rows. They like a compost of fibrous loam four parts, cow manure two parts and leaf mold one part. Keep moist at the roots and syringe two or three times a week. Be careful about ventilation and see that they have it in plenty. Do not ever attempt to force them into flower by extra heat. Keep clear of fly by light fumigation every 10 days.

Pompon Dahlias for Christmas

These plants make quite a novelty around the holidays. It is well to try your luck in flowering them for that date. Cuttings that were taken during June and grown on can be plunged in a frame where they will be handy for watering and syringing. They can have a couple of pinchings to make them bushy. They will flower well in 5, 6 or 7-inch pots. About the middle of September they can be given a light bench where the night temperature runs from 50 to 55 degrees and about 70 degrees by day. Keep them clean by light fumigation. When they begin to show bud they can have a little manure water once a week until they show color. Keep them tied to small stakes. They like a compost of fibrous loam four parts, cow manure two parts, leaf mold one part.

Schizanthus Wisetonensis

This is a very charming annual to grow during the winter for either a pot plant or cut flowers. Now is a good time to sow for winter. Mix a compost of loam, leaf mold and sand and fill the pans to within an inch of the top. Keep them shaded until the plants begin to show enough through the surface, but after that they will stand all the sun they can get. When they can be handled they should be potted in 2-inch pots and shift ahead afterwards as they may need it. From a 6 up to an 8-inch pot will do to flower them in. Pinch frequently so as to form bushy plants. For the last two or three shifts give them a compost of fibrous loam three parts, well rotted manure two parts, with a little sand. When they have filled the pots with roots they will take plenty of water. They will grow well in a night temperature of 45 to 48, with 10 to 15 degrees higher during bright weather.

Swainsona

Florists who have a lot of make-up work can use these flowers well. The bloom should be cut when all the flowers are nearly full out and placed in water in some cool light place for 8 or 10 hours. When these plants get pot-bound they will show flower and keep on blooming with great persistency. At this stage they should have some liquid manure about once a week. They root easily from now on, so if cuttings are put in now and grown along without check, they will make nice flowering plants in 5 or 6-inch pots by next spring. When well-rooted they should be potted into 2 or 3-inch pots and kept shaded for a few days until well established. Toward the last shifts use rich soil. They can be potted out on a bench at about 50 to 55 degrees during the night. Give plenty of ventilation without drafts.

Reminders

House winter-flowering geraniums as they do better in the house after this date.

Cutting of nearly all perennial vines strike freely now, especially the various kinds of ampelopsis.

Put in a good batch of cuttings of variegated vincas, as they are always in good demand during the spring.

Fire heat will now be needed in some of the houses, so see that everything is in readiness before the very cool spell arrives.

Next Week:—*Euphorbia jacquinaeflora*; *Lilium multiflorum*; *Mignonette*; *Orchids*; *Phlox*; *Reminders*.

BOOM YOUR BUSINESS

by advertising your goods in the

Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

HORTICULTURE

VOL. XXIV

SEPTEMBER 2, 1916

NO. 10

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 147 Summer Street, Boston, Mass.

Telephone, Oxford 292.
 WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION— <i>Miscanthus sinensis</i> (<i>Eulalia japonica</i> .)	
NOTES ON CULTURE OF FLORISTS' STOCK— <i>Ardisia crenulata</i> —Pansies for Winter Flowering—Pompon Dahlias for Christmas— <i>Schizanthus Wisetonensis</i> —Swainsona—Reminders— <i>John J. M. Farrell</i>	309
ROSE GROWING UNDER GLASS—Fumigation—Those Annoying Spiders—Grasshoppers and Caterpillars— <i>Arthur C. Ruzicka</i>	311
CLUBS AND SOCIETIES—Society of American Florists—A Correction—Meetings Next Week—Massachusetts Horticultural Society—Notes	312
Cleveland's Big Show, Portraits—Coming Exhibitions—Some Notable Convention Garden Exhibits	313
DURING RECESS—St. Louis County Growers	313
SOME IMPORTANT NEW OR LITTLE KNOWN TREES AND SHRUBS— <i>John Dunbar</i>	314
SEED TRADE—One Week's Imports—To a Congressman, Poetry—Notes—Catalogues Received	318
OF INTEREST TO RETAIL FLORISTS: Florists' Telegraph Delivery—New Flower Stores—Flowers by Telegraph	320
NEWS ITEMS FROM EVERYWHERE: Chicago, Pittsburgh, New York, Buffalo, Boston, Newport, R. I., Philadelphia, St. Louis	322
FLOWER MARKET REPORTS: Boston, Buffalo, Chicago, Cincinnati, New York, Philadelphia	325
INSECT PROBLEMS OF THE FLORIST AS SEEN BY AN ENTOMOLOGIST— <i>Thomas J. Headlee</i>	332
OBITUARY—Henry A. Salter—Mrs. D. Carmichael—Charles E. Grunewald	333
MISCELLANEOUS: Publications Received	316
<i>Miscanthus sinensis</i>	317
Picturesque La Salle County—Illustrated	323
Visitors' Register	323
To the Growers of Roses	327
New Corporation	327
News Notes	333
Greenhouses Building or Contemplated	334

September cheer

Here comes September, the advance courier of the new season, pregnant with the cheering promise of awakening business activity, inspiring high hopes and stirring all to enthusiasm and laudable ambition. In common with the patrons whose interests we live to serve and whose welfare is so knit into our own, HORTICULTURE, too, looks forward to the season now about to open, with eager confidence and earnest purpose to improve and advance in everything which goes to make up a trade journal of the first class. To this end we respectfully solicit the willing help and support of the trade, for we cannot do it all alone. With such co-

operation assured the resultant prosperity will be mutual. There is plenty of good business ahead for everybody who will go after it in the right way—and "the right way" includes, as an essential, a well-planned publicity campaign through the medium of HORTICULTURE.

Convention garden shortcomings

Superintendent Brock in speaking of his experience in perfecting the Convention Garden, said that to make it a success more time should be given to the preparation of the Garden, two seasons being necessary to properly develop it and produce shrubbery of sufficient size and growth so that finished results could be shown at the date of the convention. This fact was also plainly in evidence in the Boston convention when the difficulties met were really insurmountable owing to the additional hindrance of a cold wet spring. This was the occasion of the original suggestion by HORTICULTURE which has now been adopted by the S. A. F. that the location of the convention should be selected two years in advance if the Convention Garden is ever to be a creditable piece of work. Mr. Brock, however, says that the installation of the Convention Garden in Houston caused many people to visit the park who had never before visited it and thus a healthy interest in park improvement and home beautifying has been created, the trade has already felt the impulse in the call for more and better plants, and so the Garden, notwithstanding all the drawbacks, did in a measure accomplish its purpose.

The month of fairs

September is the big month for "fairs." Unfortunately and, we believe, unwisely for the trade as well as for the fairs, the horticultural department of these popular institutions is seldom more than a joke and it would be a relief to the mind of the self-respecting horticulturist visiting such if the flower section as usually seen were abolished entirely. And yet there is no good reason why these affairs might not be turned to as good profit proportionately for the florist, plantsman and seedsman as for the numerous other industries that do find them beneficial. It is gratifying, therefore, to see that efforts are being made in various places by the local horticultural people to develop in a progressive and dignified manner the horticultural end of these annual enterprises. The Rochester, N. Y., Industrial Exposition, a "fair" under another name, which opens next Monday is one instance; the New York State Fair scheduled to open at Syracuse on the following Monday, September 11, is another. Especially would we commend the Industrial Exposition and Fair at Cleveland, Ohio, running for one week from Saturday, September 2, in which a supreme effort is being made to induce the flower growers, gardeners and floral artists to take a leading part. Liberal prizes are offered and we hope and believe that this attempt will be a success. There are a score or more county and sectional fairs of considerable importance throughout New York State and New England especially where similar activity would be a wise move. One or a few exhibitors, however well they may do, cannot possibly bring up any department to a proper level. There must be a general interest and a general co-operation and as soon as this is under way the rest will always be easy. If the premiums offered are considered inadequate the sure remedy lies in making the department such a popular success and drawing feature that its importance will command recognition. When this stage has been reached the management will not be backward in coming forward with "the dough."

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Fumigation

Now that there is a cool night now and then, growers should not neglect to clean out any fly that may have got in here and there in spite of careful spraying or light smoking. For this purpose we find nothing better than some of the tobacco papers advertised in HORTICULTURE. When carefully done, the smoke will get in under the plants where it is hard to spray and will get out any fly that may happen to be there. A light, quick syringing following the fumigation will help clean out the remainder, as there will be many of the old ones that will not be killed but merely made sick, and if these can be knocked off the plants and under the bench they are sure to perish as they will not have energy enough to crawl back. There should be no weeds or anything under the benches that will house them for then they are sure to get back to the plants later, as a certain number are gifted with wings which they do not hesitate to use the first chance they get. If there are very many of the pests it will be well to smoke the house again the following night if conditions are right. This means that the temperature should be below 70 degrees F. and the plants plenty wet enough at the root. It is best to fumigate on a quiet night as the smoke will go through the house better than it would on a windy night. With old leaky houses it is best to smoke on rainy days or nights as all air crevices and cracks in broken glass will be full of water and the fumigation will be much more effective. Tobacco stems can be used where time will permit, and when used right with good stems the work will be equally effective. It is not a very pleasant task though and great care must be taken to see that the stems do not burn with a flame as the smoke would be very hot then and would surely burn the plants. It is not a good idea to have the stems too wet, as the smoke will then be weak because it will be about half steam. Just wet them enough to keep them from burning with a flame. It will be necessary to prepare the stems at least two hours ahead of the time they are to be used. The water will then have plenty of chance to work through the stems so that they will be moist all the way through yet not wet. When using stems a large smoke pot made for the purpose should be used and this can be pulled through the house, filling it up properly. We get best results by going through first filling the house about half, and then coming back through and filling it up proper. This gives us a chance to see air pockets and judge the way the smoke will behave. The house can be filled much

more evenly this way, as it is quite a proposition to begin and fill the house right up from the one end. If many houses are to be done it is best not to use the same pot all the time, as it is bound to get too hot and not work right. One hour's use is the limit for one pot, after which a fresh one should be started. It will work better, give denser and cooler smoke and be more satisfactory all the way around.

Those Annoying Spiders

No, it will not be red spider that we refer to this time. It will be real spiders, those that have a habit of stretching cobwebs at night across the walks, that catch the grower's face in the morning when he comes around to cut his roses. These spiders do no harm to the roses that we can see, but are very annoying for reason already stated. We discovered a way to get rid of this, quite by accident, but it seems to do the work and it certainly is much more pleasant to cut and carry an armful of roses without having to stop to brush the cobwebs from the face. We find a little fine bone-meal dusted over the plants with a pair of bellows will drive the spider away, and the webs will disappear almost as soon as it is applied. The stronger the smell of the bone, the more effective it will be. Needless to say, the bone should not be applied so that the plants are covered thickly, but apply just a slight dusting.

Grasshoppers and Caterpillars

With the side air open occasionally, there will be a number of grasshoppers getting in and these are very far from being an asset. See that the boys get them whenever they are cutting, watering or scratching. Never stop until the one that you see is dead. They will eat off the finest of the buds and in this manner do far much more damage than one would think. Another pest is a tiny caterpillar that eats out the under side of the leaves. Hand picking is the only thing that will get rid of these and if growers will keep their eyes open when cutting or disbudding there need not be very many around. They seldom operate singly, for the eggs are laid by some moth or butterfly in a bunch and there is generally a whole colony of the pests under the leaf and then when that leaf is eaten off they are ready to start on the next one. It is hard to reach them with poison as they do not take the whole leaf, but just the cells under the protecting top shell. There are also worms that bore into the stalk and many of the finest shoots are sometimes affected. The wide-awake grower will have his eye on this, and as soon as any suspicious looking shoot appears it is taken off at once and burned. A good idea, too, is to catch and kill and burn all butterflies and other insects that get into the houses and cannot find their way out. We say burn them because it often happens that there will be a lot of eggs ready to be laid, and if the insect is not burned these eggs will hatch just the same. Do away with them good and proper.

CLUBS AND SOCIETIES

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Meeting of the Executive Board.

The Executive Board in session at Houston, Texas, August 17th, passed the following recommendation:

Recommending the "Changing of the convention date providing The National Flower Show is held in the spring in 1918 in St. Louis, Missouri. Definite action on this recommendation to be taken at the Mid-Lent meeting of the Executive Board to be held in New York."

JOHN YOUNG, Sec'y.

Report of Committee on Publicity.

By Irwin Bertermann.

In view of the impossibility of holding a majority committee meeting at Philadelphia or since that time, the chairman wishes to submit the following: Mr. J. H. Pepper was engaged under the supervision of Mr. Young, Sec. as per the instructions of the directors of the Society of American Florists. Mr. Pepper wrote and disseminated numerous articles for Mother's Day, Memorial Day and for special features such as new roses, carnations and other meritorious commodities. These were distributed to the leading papers of the country and responses from the editors showed that a great many of them were being used. It soon became evident to the chairman of the committee that as the matter of publicity was such a big undertaking, it was better to go slowly and not waste any funds of the parent organization. Mr. Pepper submitted numerous plans for national advertising but as many of them were necessarily expensive it was deemed best to submit the whole thing to the committee once more for maturity. The start that has been made by our national body is certainly along good lines. There cannot be too much publicity or too much thought given this important topic but the amount spent must compare with the returns gained therefrom. Of course every particular line of business thinks it ought to be exploited directly but is it not true that if any one line is exploited, the others are sure to benefit in proportion? Many retailers in particular have expressed a desire for national advertising and are willing to contribute to a fund for this purpose. Mr. Pochelon, Secretary of the Florists Telegraph Delivery is at this time endeavoring to raise a special fund for advertising. Would it not be best for the S. A. F. to cooperate with the Florists' Telegraph Delivery and each of them devote a certain amount, say fifteen hundred to two thousand dollars for a common purpose? There is much doubt as to the advisability of direct advertising, as the expense is too great, but an unlimited amount of good can be accom-

Meetings Next Week

Monday, Sept. 4.

Bernardsville Horticultural Society, Horticultural Hall, Bernardsville, N. J.
Elberon Horticultural Society, Fire Hall, Elberon, N. J.
Houston Florists' Club, Chamber of Commerce Rooms, Houston, Tex.
Montreal Gardeners' and Florists' Club, Montreal, Canada.
New Bedford Horticultural Society, New Bedford, Mass.
Washington Florists' Club, Washington, D. C.

Tuesday, Sept. 5.

Florists' and Gardeners' Club of Holyoke and Northampton, Mass.
Lake Geneva Gardeners' and Foremen's Association, Horticultural Hall, Lake Geneva, Wis.
Los Angeles County Horticultural Society, Los Angeles, Cal.
Paterson Floricultural Society, Y. M. C. A. Bldg., Paterson, N. J.
Philadelphia Florists' Club, Horticultural Hall, Philadelphia, Pa.
Pittsburgh Florists' and Gardeners' Club, Fort Pitt Hotel, Pittsburgh, Pa.

Wednesday, Sept. 6.

Tuxedo Horticultural Society, Tuxedo Park, N. Y.

Thursday, Sept. 7.

Reading, Pa., Florists' Association, Reading, Pa.
Southampton Horticultural Society, Odd Fellows Hall, Southampton, N. Y.

Friday, Sept. 8.

Connecticut Horticultural Society, County Building, Hartford, Conn.
Westchester and Fairfield Horticultural Society, Doran's Hall, Greenwich, Conn.

Saturday, Sept. 9.

Dobbs Ferry Gardeners' Association, Dobbs Ferry, N. Y.

plished by a central bureau such as has been undertaken in a small way which would co-operate with the Florists' Clubs of the country, with the individuals of the S. A. F. & O. H. and with the editors of the leading papers for indirect advertising. The chairman, at the request of President Welch, undertook the work simply for a start. He mentioned at that time that he would only undertake the same for a limited period and as it is impossible for him to devote the proper amount of attention, he begs leave to have someone else appointed in his place as chairman, but is perfectly willing to do his smaller part as a member of the committee.

The amount spent—\$190.00—is well accounted for in the matter of publicity received and accounted for by Mr. Pepper.

A CORRECTION.

Secretary Young informs us that the date of the next International Flower Show, to be held at the Grand Central Palace, New York, was mentioned in the first Preliminary Schedule as March 16th to 23rd. This is an error. The correct dates of the coming exhibition are March 15th to 22nd.

MASSACHUSETTS HORTICULTURAL SOCIETY.

Children's Garden Exhibition.

The annual exhibition of the products of children's gardens, conducted by the Massachusetts Horticultural Society, will be held at Horticultural Hall, Boston, Saturday and Sunday, September 2 and 3. This exhibition is one of the most interesting of the horticultural events of the year and will show the progress made in the encouragement of gardening among the children of the commonwealth in recent years. Numerous school gardens as well as private home gardens in eastern Massachusetts will be represented with the flowers and vegetables grown by the young gardeners. Prizes to the amount of \$350 will be distributed to the exhibitors. The exhibition is free and will be open Saturday from 12 to 6 and Sunday from 1 to 6 o'clock.

Gladiolus Mrs. Dr. Norton Wins Silver Medal.

On Saturday, August 26, L. Merton Gage, of Natick, Mass., exhibited at Horticultural Hall a vase of the new Kunderd seedling gladiolus Mrs. Dr. Norton. It is a magnificent flower of a delicate pink tint shading into yellow and so much impressed the committee on plants and flowers that they awarded it a silver medal.

CLUB AND SOCIETY NOTES.

The third annual exhibition of the Gardeners' Union of Bangor, Me., was held this week in the City Hall. There were over 100 exhibitors.

The Florists' Club of Washington, D. C., will hold its regular monthly meeting at 1214 F street, Northwest, on Tuesday evening, September 5.

The St. Louis Florists' Association held on August 21 one of the largest meetings the association ever had. The membership committee expects by the next meeting to have a membership of seventy-five.

The Rochester (N. Y.) Exposition opens on Monday, September 4, and continues through the week. The Flower Section comes under Department E. and judging will commence at 1.30 P. M. on Monday.

The annual exhibition of the Andover (Mass.) Florists' and Gardeners' Club will be held in the town hall on September 8 and 9. G. D. Millet, George Piddington, J. H. Playdon and other florists of Andover and neighboring towns are active in promoting the show.

The Worcester County (Mass.) Horticultural Society had an extensive gladiolus show on August 24. Among the prominent exhibitors were R. W. Swett of Saxonville, L. Merton Gage of Natick, S. E. Spencer of Woburn, Montague Chamberlain of Millbury and Allen Jenkins, gardener at Irithorpe, Shrewsbury, Mass.

The exhibition of the Gardeners' Union at City Hall, Lewiston, Me.,

last week was the best up to date. Amateurs largely predominated but nice exhibits were staked by George M. Roak Co., Auburn, Me., ferns, celosias, etc.; Thomas Cogger, Melrose, Mass., gladioli; Fottler, Fiske, Rawson Company, Boston, dahlias; Horne & Noyes, Lewiston, gladioli, and others. Ernest Saunders and Hugh Roak acted as judges.

CLEVELAND'S BIG SHOW.

At the end of this week, September 2nd, comes the opening of the Big Event that has been announced several times previously in our columns.

This will be the first early fall flower show ever held in Cleveland. It is one of the feature sections of the Industrial Exposition and Fair. It is announced as the biggest civic event ever staged in Cleveland.

A. B. Blackburn, superintendent of



M. A. VINSON

Manager, Cleveland Flower Show.

the W. S. Tyler White Side Farms, has made a large entry of out-door plants as well as palms and ferns. He will also enter heavy in the vegetable section.

Robert Weeks, superintendent of the A. F. Holden estate, is planning on making a very good showing.

E. A. Bause, superintendent of the J. W. Corrigan estate, Wickliffe, Ohio, will have a vast display. Mr. Bause will also have a feature exhibit of eight aquariums of rare fish.

Decorated tables of both retailers and private gardeners will form one of the interesting features of the week, together with baskets, bridal bouquets, etc., and other forms of display.

Timothy Smith, Chairman of the Flower Show Committee, thinks that the Cleveland public will respond to this and there will be much good come from it to the entire florist industry of Cleveland.

Cleveland men are expecting to entertain a large number of their friends among the trades from distant points.

This Show will be well worth seeing.

Coming Exhibitions

Sept. 4-9, Rochester, N. Y.—Flower show in connection with the exposition.

Sept. 6, Amherst, Mass.—Field Day for Market Gardeners at the Agricultural College.

Sept. 7-8, Florence, N. Y.—Floral and Vegetable Carnival.

Sept. 9-10, Boston, N. J.—Dahlia and Fruit Exhibition, Massachusetts Horticultural Society, Horticultural Hall.

Sept. 11-16, Louisville, Ky.—Kentucky State Fair.

Sept. 13-14, New Haven, Conn.—Eighty-fourth Annual Exposition of New Haven County Horticultural Society in Republican Hall.

Sept. 18, Orange, N. J.—Dahlia and Horticultural exhibitions of the New Jersey Floricultural Society.

Sept. 22-23, Paterson, N. J.—Fifth annual Fall flower show of New Jersey Floricultural Society at Young Men's Christian Association Hall.

Sept. 23, Maplewood, N. J.—Second annual Dahlia exhibition.

Sept. 26-28, New York, N. Y.—Amer. Dahlia Soc.'s annual show, in Engineering Bldg., 25 W. 39th St.

Sept. 26-29, Chicago.—Vegetable Growers' Association, Hotel La Salle. Annual Convention and Trade Exhibit.

Oct. 7-8, Boston.—October Fruit and Vegetable Exhibition, Massachusetts Horticultural Society, Horticultural Hall.

Oct. 10-12, New Orleans, La.—Eighteenth Annual Convention American Association of Park Superintendents.

Oct. 26-27, Madison, N. J.—Twentieth Annual Flower Show, Morris County Gardeners' and Florists' Society, James Assembly Hall.

Oct. 27-29, Mount Kisco, N. Y.—Fall show of the Northern Westchester County Hort. and Agri. Soc.

Oct. 31-Nov. 1, Greenwich, Conn.—Fall Flower, Fruit and Vegetable Show of the Westchester and Fairfield Horticultural Society.

Nov. 1-5, Boston.—Grand Autumn Exhibition of Plants, Flowers, Fruits and Vegetables, Massachusetts Horticultural Society, Horticultural Hall.

Nov. 1 to 3, Tarrytown, N. Y.—Chrysanthemum show of the Tarrytown Hort. Soc. in Music Hall.

Nov. 8-10, New York.—Annual Chrysanthemum show of the American Institute, Engineering Society Bldg., 25-33 W. 39th St., New York.

Nov. 9-11, Lancaster, Pa.—Fall flower show.

Nov. 9-12, New York.—Fall exhibit Horticultural Society of New York at Museum of Natural History.

Nov. 11-19, New Orleans, La.—Flower show.

Nov. 14-15, Providence, R. I.—Flower show of R. I. Hort. Soc.

DURING RECESS.

St. Louis County Growers.

The County Growers' Association held its third annual outing last week at Little Creve Coeur Lake with large attendance and the weather "made to order." The committee had provided a good program of games and a fun band, all members of the association. The prizes for the games were beautiful and useful. The officers of the association from President Winter down worked hard to make things enjoyable for all.

SOME NOTABLE CONVENTION GARDEN EXHIBITS.

At the Henry A. Dreer's garden Hungarian Pink looked exceptionally fine. Schoppenhauer, a red and yellow striped canna, attracted much notice. The most beautiful exhibit in the entire garden was Dreer's aquatic display.

Conard & Jones showed ten varieties of cannas, of which the City of Portland, a salmon pink, was pronounced the greatest attraction of the canna exhibit.

Wm. Tricker & Son's display of water lilies included many hybrids of the late Wm. Tricker's own production. The exhibit had for a background a pretty piece of natural rock work and waterfall effect.

The Texas Rose Company's rose display as a whole was remarkable for this season of the year, as gener-



TIMOTHY SMITH

Chairman, Flower Show Committee, Cleveland.

ally at this time of the year in Houston the roses are pretty poor.

The California Rose Company made a grand rose display with fifteen varieties, among which were American Beauties growing out of doors with 36 inch stems. The greatest bloomer in this display was La Detroit, of which there were fifty plants in one bed. Mlle. Edouard Herriot and Etoile de France showed up exceptionally well.

Baldwinsville, N. Y.—At a recent meeting of the citizens of this village a society to be known as the Baldwinsville Floral Society was organized to promote the floral interests of the village.

Under the heading of "Horticultural Notes" in a contemporary we find notes on orchard spraying, citrus white fly, wood pulp, perfumes, crude rubber, paleo-botanists and several other topics. Why not include astrology, mesmerism, kleptomania, movies, Mexican troubles and theology? Any old thing with the exception of gardening.

Some Important New or Little Known Trees and Shrubs

By JOHN DUNBAR, Botanist, S. A. F.

During the past eighteen years a large number of species of hardy, or relatively hardy trees and shrubs have been introduced to cultivation from eastern Asia and North America, to scientific institutions, parks and gardens, and a large number of varieties, crosses, and hybrids amongst some genera of ornamental shrubs, have been introduced from various sources to cultivation. We propose to mention a limited number that have been partially tested and appear promising in the city parks, Rochester, N. Y.

SYRINGAS. Perhaps the most popular of all garden shrubs are the lilacs, and our parks and gardens have been wonderfully enriched during late years with superb varieties and hybrids that have completely outclassed many older varieties that we thought could not be improved upon. The introduction of new species of lilacs from Western China, by E. H. Wilson, through the Arnold Arboretum, has been a wonderful revelation.

Syringa reflexa is one of the most beautiful lilacs from Western China and has flowered with us for two years. It has curving panicles of rosy pink flowers, eight to ten inches long, about June 1st. It has good, ample foliage. *Syringa Sweginowii*, from eastern Asia, has loose dainty clusters of fragrant white flowers, shading to pink. It flowers about June 10th and is a strong, vigorous shrub. *Syringa tomentella*, from western China, has a compact, much-branched habit and produces clusters of rosy-pink flowers about June 7th. Mr. Wilson states that when he first saw this lilac growing in the wild, he thought it was the most beautiful lilac he had ever seen. It is very variable in its characters and some forms of it were named *S. Wilsonii*, and *S. Rehderiana*. The specific name *tomentella*, however, stands for the group. *Syringa Wolfii* is a native of Manchuria, and came into cultivation through Petrograd botanists a few years since. It is in full flower from June 1st to 5th, and has panicles six to seven inches long of rosy-purple flowers, and blooms most profusely. It has very distinct oval-shaped leaves.

A few years since, the Lemoines of France introduced a most important race of early-flowering lilacs to cultivation by hybridizing *Syringa affinis* Giraldis, with some of the earliest flowering *vulgaris* forms. The former is an early blooming lilac from northern China that has been in cultivation a good many years. These new hybrids blossom much earlier than the *vulgaris* group. Four of them have flowered with us for several years. *Lamartine* has single, elegant panicles of mauve pink flowers; *Mirabeau*, single panicles of mauve lilac blossoms. *Berreyer* has double, large panicles of mauve flowers, and *Vauban*, double, numerous, prominent panicles of rosy mauve flowers.

It is a somewhat difficult task to select a few of the best of the most recent single and double flowering

lilacs amongst the *vulgaris* varieties and hybrids, when these varieties run into the hundreds. Amongst single, various shades of blue and bluish lilac and bluish violet, we would recommend *Crampel*, *Décadence*, *Gilbert*, *President Lincoln* and *Ronsard*; in single, lilac pink shades, *lilarosa*, *Lovaniensis*, *macrostachia* and *Schermerhornii*. *Lilarosa*, *Lovaniensis* and *Schermerhornii* have been in cultivation for a good many years. A very distinct shade in salmon pink is shown in *Lucie Baltet*, and in this particular color it stands alone; in shades of purple red to violet red, *Cavour*, *Danton*, *Laplace*, *Marceau*, *Milton* and *Monge*. In single white, *Kate Harlin*, *Madame Florent Stepman*, and *Vestale*. *Vestale* is perhaps the best single white flowering lilac in cultivation. The large pure white blossoms, partly reflexed, on large compound clusters, give it a most distinctive appearance.

In double crimson red, purple red, and violet red, we would recommend *Adelaide Dunbar*, *Charles Joly*, *De Saussure* and *Paul Harriot*; double blue, bluish lilac and bluish violet, *Godron*, *Maréchal Lannes*, *Olivier de Serres*, *President Vigier* and *Victor Lemoine*; double lilac pink shades, *Comte de Kerchove*, *Edouard Andre*, *Louis Henry*, *President Fallières* and *Waldeck-Rousseau*; double white, *Dame Blanche*, *Jeanne d'Arc*, *Madame de Miller*, *Miss Ellen Willmott* and *Rabelais*.

DEUTZIAS. Some beautiful *Deutzias* have been introduced from western China and a large array of most beautiful hybrids and varieties have been introduced by the Lemoines. The long branching sprays of these new hybrid *Deutzias* in white, rosy pink, and purplish red flowers, should be splendid plants for cut flower purposes for florists. *Deutzia discolor* with its white, dense corymbs of flowers is a very showy shrub. Although discovered a good many years since, it is only lately that we secured it. *Deutzia glomeruliflora* is a neat shrub from western China, with grayish white leaves, and produces very numerous, dense, white, small flower corymbs. *Deutzia longifolia* from western China is an upright branching shrub with oblong leaves. The flowers are exceedingly variable, shading through rosy pink to purplish red.

Amongst the numerous hybrids and varieties, perhaps some of the most distinct are: *D. rosea campanulata* in which the long curving branches, covered with the bell-shaped white flowers are remarkably beautiful; *D. rosea carminea* has profuse light pink flowers, tinted carmine outside; *D. rosea floribunda* has very large blossoms, porcelain white, tinted with rosy pink outside of the petals; *D. rosea grandiflora* is a gem, and has large, well expanded blossoms, white, flushed with pink and carmine buds; *D. carnea lactea* has milky white blossoms in great profusion and sulphur white anthers; *D. excellens* has most distinct flowers, bearing a resemblance

to hawthorn blossoms. The pure white flowers are borne on loose panicles; *D. elegantissima* is an elegant flowering shrub with slender branches thickly covered with corymbs of rose tinted flowers and with carmine buds. It is true that some of the above hybrid *Deutzias* were produced twelve to fifteen years since, but they are still little known.

PHILADELPHUS. *Philadelphus Magdalenae* is an interesting new species from western China, with showy white flowers and distinct, ovate, acuminate-toothed leaves. It was first introduced from China by Maurice de Vilmorin and re-introduced by E. H. Wilson. *P. purpurascens* is another new Chinese species. It is a strong-growing shrub with somewhat drooping branches. The pleasingly fragrant, white, bell-shaped blossoms are produced freely from all of the branchlets.

A very large number of beautiful varieties and hybrids of *Philadelphus* have been sent out by the Lemoines during recent years and we will mention only a few of them. *Philadelphus Albatre* is very floriferous and the slender branches produce dense clusters of pure white, very double flowers which are particularly attractive to many people. *P. Argentine* is an erect-growing shrub and produces large double white flowers over two inches wide. The petals have a distinctly imbricated appearance. *P. Banniere* is a gem. It is a tall-growing shrub and the semi-double, very large, pure white blossoms are borne abundantly on the branches and branchlets. *P. Mer de Glace* is a tall-growing shrub and has perhaps the largest blossoms of any *Philadelphus*. The snow white blossoms are double to semi-double and have somewhat the appearance of a rose. *P. Virginal* is surely a shrub for the florists to grow. It is vigorous in habit and produces an extraordinary profusion of pure white double flowers in dense clusters, and the branches hang down under their weight. It would appear to be a fine shrub for cut flower purposes. A number of years since, there was considerable attention given in some nursery circles to the first appearance of *P. purpureo maculatus*, which showed a distinct reddish pink color on the lower part of the corolla. I remember how enthusiastic the late John Charlton of Rochester, N. Y., was in describing this *Philadelphus* to me, some time before I had an opportunity of seeing it. A number of varieties in this group have since appeared and have all flowered with us. Amongst them are *P. Etoile Rose*, *P. Romeo*, *P. Sibylle* and *P. Sirene*, and they all show single flowers in various shades of rosy pink to purplish red on the lower part of the corolla. They are small growing bushes and are somewhat tender. The red color has been derived from a Mexican species. In our judgment they are very pretty and are desirable garden plants.



Boddington's Re-selected Winter-flowering Spencers as grown by Wm. Sim, Cliftondale, Mass.

WINTER SPENCER SWEET PEAS

NEW CROP SEED READY FOR DELIVERY NOW.			
	1 oz.	1 lb.	1 lb.
APRICOT ORCHID. Mostly apricot self.	\$1.50	\$4.50	\$15.00
BELGIAN HERO. A beautiful rose.	3.00	10.00	35.00
BOHEMIAN GIRL. Light pink.	1.50	4.50	15.00
BRIDAL VEIL. Pure white.	1.00	3.50	12.00
CHRISTMAS PINK ORCHID. Pink, white wings.	3.00	10.00	35.00
MRS. A. A. SKACH. Bright pink.	.65	2.00	7.50
MRS. JOHN M. BARKER. Lilac.	1.50	4.50	15.00
MRS. JOS. MANDA. Light shell pink.	.65	2.00	7.50
MRS. M. SPANOLIN. Double; white.	1.00	3.50	12.00
MORNING STAR. Self pink color.	3.00	10.00	35.00
ORANGE ORCHID. Standard orange, wings dark salmon-pink.	1.50	4.50	15.00
ORCHID BEAUTY. Rose pink, with orange.	.75	2.50	9.00
PINK-AND-WHITE ORCHID.	.65	2.00	7.50
RED ORCHID. Bright cherry-red.	.75	2.50	10.00
ROSE QUEEN. A pink of sterling merit.	1.50	5.00	18.00
SENSATION. Newman & Legg's Christmas Pink Orchid.	3.00	10.00	35.00
SENSATION SCARLET. Bright scarlet.	3.00	10.00	35.00
THE CZAR. Rose, wings white, mottled pink.	3.00	10.00	35.00
VENUS. Blush pink.	1.50	4.50	15.00
WHITE ORCHID. Pure white.	.65	2.00	7.50
YARRAWA. Bright rose pink. Australian grown seed.	2.00	7.00	24.00
Californian grown seed.	.65	2.25	8.00
MIXED SPENCERS, WINTER FLOWERING:	oz., 65c; ¼ lb., \$2.00; 1 lb., \$7.50.		

CYCLAMEN—Boddington's Gigantic

Sow in August and September for Best Results

	Tr.	100	1000		Tr.	100	1000
	pkt.	seeds	seeds		pkt.	seeds	seeds
CHERRY RED.	\$0.50	\$1.00	\$9.00	PEACH BLOSSOM. Rose	\$0.25	\$0.75	\$7.00
CRIMSON.	.25	.65	6.00	color.			
CRIMSON AND WHITE.	.50	1.00	9.00	PRINCESS MAY. Color	.50	1.00	9.00
LILAC.	.25	.65	6.00	pink.			
PINK. Soft pink.	.25	.65	6.00	ROSE OF MARIENTHAL.	.25	.65	6.00
ROSE. Light rose.	.25	.65	6.00	Shell pink.			
SNOWFLAKE. White.	.25	.65	6.00	SALMON KING. Finest	.50	1.00	9.00
SYRINGA-BLUE.	.25	.65	6.00	salmon.	.50	1.00	9.00
WHITE BUTTERFLY.	.50	1.00	9.00	SALMON QUEEN. salmon.			
PHOENIX. Cherry-crim-				SALMONIUM SPLEN-	.25	.80	7.50
son.	.50	2.00	18.50	DENS. Fine salmon-pink			
PURPLE KING.	.25	.80	7.50	WONDER (GLORY) OF			
VULCAN. Rich crimson.	.50	2.00	18.50	WANDSEK. Intense	.50	1.00	9.00
				salmon-red.	.25	.60	5.50
				MIXED.			

Our Wholesale Catalogue of Bulbs and Seasonable Flower Seeds is now Ready. Free to Florists on Request. 5 PER CENT. DISCOUNT FOR CASH WITH ORDER.

ARTHUR T. BODDINGTON CO., Inc., 128 Chambers St., New York City

COTONEASTERS. If Mr. Wilson had done nothing more than introduce the large number of species of beautiful hardy Cotoneasters for the embellishment of the gardens and parks of northeastern America, he would then have achieved a splendid success. We have a number of them under cultivation and some of the most distinctive are as follows: Cotoneaster amoena is a dense, compact shrub. The flowers are inconspicuous but the globose, orange-red berries are very ornamental in October and November. C. divaricata is an upright, robust shrub, thickly covered with small deep green, glossy leaves. The ovoid bright red fruits are remarkably pretty in September. C. foveolata is a most vigorous growing species with larger leaves than most of the other kinds. The flowers have a reddish appearance and the fruit is black. The foliage turns to orange-red in the Autumn. C. Franchetii is a most graceful shrub with branches somewhat pendulous. The leaves are most attractive, deep green above and whitish beneath. The small flower corymbs have a pinkish appearance. The ovoid orange-red fruits ripen in October and November and are very attractive. C. Henryana is a low spreading shrub with distinct, oblong, dark green leaves. The whitish flower clusters are attractive. The fruit is red. C. multiflora is perhaps the showiest flowering of all of the Cotoneasters. The white flowers, borne on the arching branches, are very beautiful. The roundish bluish green leaves are very attractive. C.

Zabelii is a beautiful shrub with slender, graceful, spreading branches and oval leaves, dull green above, yellowish white below. It has pinkish flower corymbs and roundish, red, drooping fruit clusters in September. BERBERIS. A large number of beautiful new barberries have come from western China. Berberis aggregata is an upright dense growing shrub with brownish red stems, smallish tapering leaves, deep green above, pale below. The dense spikes of yellow flowers are borne on the branchlets during the first week in July. B. dictyophylla is the most distinct of all of the barberries. The angular branchlets are covered with a white bloom. The leaves are pale green above and chalky white beneath, which gives the whole plant a whitish aspect. The fruit is dark blue with a

glaucous bloom. It is a very interesting species. B. polyantha is a very dense upright species with the lower branches spreading. The small leaves are obovate, olive green above, whitish beneath. It has dense compound spikes of yellow flowers during the first week in July. B. Poiratii latifolia is a beautiful dense shrub with a drooping habit and has showy red fruit in the autumn. B. verruculosa is a hardy, handsome low evergreen barberry from western Szechuan. A really hardy evergreen barberry is very desirable. Our plants are about one foot high. The dense branches, thickly covered with small deeply lustrous green leaves, render it most attractive. The small deep yellow flowers are very pretty. B. Wilsonae is a dense compact bush thickly covered with very small tapering

Primula Malacoides Rosea

Florists who grow stock for the Retail Trade should obtain plants of this charming little Primrose during September and October for St. Valentine's Day and Easter

LATE SOWN MALACOIDES ROSEA FOR BEST RESULTS

CERTIFICATES WHEREVER SHOWN

2 1/4-inch pot plants \$5.00 per 100, \$40.00 per 1000

FRED H. LEMON & CO.

RICHMOND

INDIANA

leaves. It is the latest of all barberies to flower with us and blossoms about the middle of July. The coral red fruits are remarkably pretty in late autumn. The tips of the branches are occasionally winter-killed with us.

VIBURNUM. Some important new *Viburnums* have been introduced. *V. Carlesii*, from Korea, is perhaps one of the handsomest plants introduced into American gardens in recent years. The splendid merits of this shrub have already appealed to some American nurserymen. It blooms with us about the end of April and first week of May. The unfolding pink buds and white or faintly blush fragrant flowers which follow, are remarkably attractive. The habit is compact. *V. budleifolium* from western China, has oblong leaves from five to six inches long and two inches wide, dark green and rugose above, densely covered with a felty white tomentum beneath. About the middle of May it produces pinkish tinted flower clusters, not particularly showy. It is quite hardy and its foliage is very ornamental. *V. rhytidophyllum* is a handsome evergreen species. The rugose leaves are six inches long and two inches wide and covered with a pale rusty tomentum beneath. The whitish flower corymbs open about the middle of May and the black fruits ripen in September. *V. Veitchii* has leaves that bear a resemblance to *V. lantana*, but they are much handsomer. This species has not yet flowered with us but it appears to be hardy.

LONICERA. Amongst the new bush honeysuckles from western China, there are none so distinctive as *Lonicera Maackii* var. *podocarpa*. It is a tall, robust, spreading bush with showy white flowers. It is about the latest of all *Loniceras* to blossom. The handsome red fruits are very showy in October and November. The type, *L. Maackii*, has very showy white flowers but the fruits are less conspicuous.

SPIRAEA. A number of *Spiraeas* have been introduced from China. *Spiraea Henryi* is one of the best and is a vigorous shrub, five to six feet tall. The branches are festooned with numerous clusters of white flowers about the middle of June. It has good characteristic foliage and this can hardly be said of a great many *Spiraeas* now in cultivation. *Spiraea Veitchii* has a more upright habit of growth than *S. Henryi* and smaller leaves which are very distinctive. The branchlets produce terminal clusters of showy white flowers about the end of June.

CORNUS. *Cornus paucinervis* is a beautiful low growing shrub from Szechuan. Occasionally individuals have a semi-prostrate habit. It has numerous small lance-shaped leaves, deep green above. The conspicuous white flower clusters are borne on terminal branchlets from July 15th to 20th, and it is the latest of all the dogwoods to flower.

HAMAMELIS. *Hamamelis mollis* the handsome Chinese Witch Hazel, was first introduced to cultivation by E. H. Wilson through the late Veitchian nurseries of England. The large orbicular-shaped leaves, deep green above, are very ornamental. The showy yellow flowers appear sometimes in mid-winter if the weather is

mild. It is usually in good bloom about the first of March.

INDIGOFERA. *Indigofera Kirilowii* is a handsome low shrub from Korea and spreads into a compact mass. The showy panicles of pink flowers come into bloom in July. This handsome shrub was found in Korea a number of years since by J. G. Jack.

EXOCHORDA. *Exochorda Giraldis*, from western China, is a handsome flowering shrub and an important addition to the Chinese Pearl Bushes. The flowers are larger than those of *E. racemosa*. Our plants are small, but I have seen large individuals in the garden of Bayard Thayer, Lancaster, Mass.

(To to be continued)

PUBLICATIONS RECEIVED.

Seeding and Planting in the Practice of Forestry. By James W. Toumey, M. S. M. A., Director of the Forest School and Professor of Silviculture, Yale University. The first sensation on a glance over the chapters of this book is a conception of its thoroughness. A further perusal intensifies this impression. The book presents both the details of practice, and the fundamental principles that control success and failure in the economic production of nursery stock and the artificial regenerations of forests. It explains the why as well as the how.

The author states in his preface:

"The practitioner must have a clear appreciation of underlying principles or he cannot be safely trusted to direct the details of nursery practice, seeding and planting. He must have a broad knowledge of methods and tools in order that he may attain successful regeneration at the least cost."

Almost without exception, the cultural methods described and the tools and machines figured, have been used by the author, or are the results of the work observed by him in this country or abroad.

Part I of the book deals with the silvical basis for seeding and planting, more particularly the principles which underlie the choice of species, the closeness of spacing and the composition of the stand. Part II is descriptive of the various operations in artificial regeneration and the results that may be expected from the best practice. The chapter headings are:

Part I.—Silvical Basis for Seeding and Planting.

Chapter I—Definitions and Generalities. II and III—The Choice of Species in Artificial Regeneration. IV—The Principles which Determine Spacing. V—The Principles which Govern the Composition of the Stand.

Part II.—The Artificial Formation of Woods.

Chapter VI—General Considerations. VII and VIII—Forest Tree Seed and Seed Collecting. IX—The Protection of Seeding and Planting Sites. X—Preliminary Treatment of Seeding and Planting Sites. XI—Establishing Forests by Direct Seeding. XII to XV—The Forest Nursery. XVI to XVII—Establishing Forests by Planting.

There are 454 pages, 6 by 9, 140 figures. The book is published by John Wiley & Sons, Inc., New York, at \$3.50 net. Copies may be obtained from the office of HORTICULTURE at publisher's price.

Parasitic Rhizoctonias in America.—Prof. George L. Peltier of the University of Illinois is Plant Pathologist for the Society of American Florists. He makes no special report at the Convention this year but the completion

and issuance of the very elaborate illustrated bulletin on his observations and study of the fungus *Rhizoctonia* makes a valuable addition to our standard floricultural literature. The document, which is sent out as Bulletin 189, consists of 112 pages and can be procured upon request addressed to the Director, Illinois Agricultural Experiment Station, Urbana, Ill.

One of the most serious and troublesome diseases which must be contended with by carnation growers in this country is the co-called "stem rot" due to the fungus *Rhizoctonia*. In July, 1912, a study of this disease was undertaken by Prof. Peltier, together with a thorough investigation of those diseases of vegetable, field, and floricultural crops which are caused by *Rhizoctonia*.

The fact that 165 species of plants are reported as being more or less susceptible to *Rhizoctonia Solani* Kuhn (*Corticium vagum* B. & C.) in the United States indicates the wide distribution of the fungus in this country. Plants belonging to the families, *Amananthaceae*, *Caryophyllaceae*, *Cruciferae*, *Leguminosae*, *Solanaceae* and *Compositae* are especially susceptible. Under favorable conditions the fungus can attack plants in these families at any stage, when grown either in the field or in the greenhouse.

The symptoms produced by *Rhizoctonia Solani* (*Corticium vagum*) in natural infection are largely similar when appearing on the same type of host. The damping-off of seedlings and cuttings, of which *Rhizoctonia* is the most common cause both in the cutting bench and in the seed pan, is identical with the various plants, as is also the rotting of a number of root crops. In most herbaceous plants, such as the carnation, a stem rot is produced, the symptoms of which are identical on the various hosts. On very resistant plants, however, lesions only are formed; these are apparently identical on the different hosts.

Inoculation Experiments.

With the view of determining the degree of biologic specialization which may exist between the various cultural strains of *Rhizoctonia*, or between strains isolated from different hosts or of different geographical origin, cross-inoculation experiments were conducted involving about 3,000 cuttings, 2,000 plants, and 7,000 seedlings of various kinds. With these, comparisons were made of about forty-five strains of *Rhizoctonia*, many of which were isolated by Prof. Peltier. When carnation cuttings were infected, the strains used, with but two exceptions, whether from carnation or from other hosts, were able to cause more or less loss, the mortality of the cuttings ranging in either instance from 0 to 100 percent. Again, the same strains varied in virulence from one year to another, in most cases decreasing in virulence with age. When cuttings other than carnation were used, the results were the same. It is shown that when young rooted carnation plants were inoculated, the percentage of loss was much less than with cuttings. Here, however, the carnation strains seemed to be slightly more virulent than those from other sources, although there was still a great difference in the strains from carnation

ANNOUNCEMENT

Commencing December, 1916, I shall disseminate

Crimson Carnation Doris

Awarded A. C. S. certificate at St. Louis, January, 1916, scoring 88 points after being in the boxes on the trip 48 hours. This will give some idea of its keeping and shipping qualities. Habit erect, producing an abundance of high-grade flowers on long stiff stems, fine color, calyx very seldom splits.

Price, \$12 per 100, \$100 per 1000

S. J. GODDARD, Framingham Centre, Mass.

OUR EXHIBIT OF GERMAN IRIS

Won **FIRST PRIZE** at the

*International Garden Club, Summer Show, Pelham Manor
June 1-4, 1916*

JOHN LEWIS CHILDS, INC.,
FLOWERFIELD L. I., N.Y.

CARNATIONS

Field Grown

ENCHANTRESS SUPREME. EUREKA
WHITE WONDER. PINK DELIGHT.
\$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL,
MATCHLESS,
\$7.00 per 100; \$55.00 per 1000.

LADY NORTHCLIFF, PINK WINSOR,
WHITE WINSOR.
\$6.00 per 100; \$50.00 per 1000.

WOOD BROS., FISHKILL, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ELMER D. SMITH & CO. CHRYSANTHEMUMS

Ask for Catalogue

ADRIAN, - - - MICH.

CHARLES H. TOTTY
CHRYSANTHEMUMS
MADISON, N. J.

themselves. Only one of the strains from other sources was unable to attack young rooted carnation plants.

On old carnation plants in the greenhouse which were inoculated by contact, even the carnation strains did not cause a high percentage of infection. However, when plants growing under these same conditions were slightly wounded and then inoculated, percentage of loss was very high with nearly all the strains studied. When conditions (temperature and moisture) were favorable to the fungus, most of the strains studied were able to infect carnation plants as readily as the carnation strains themselves. In the majority of cases all strains were able to cause damping-off of various seedlings. There was a great difference in the virulence of strains when inoculated on the same host from which they had been isolated and when inoculated on other hosts. In a study of these experiments the point that stands out at first glance is the great variation in the mortality of the plants when inoculated with strains from the same host and when inoculated with strains from other sources.

Repeated observations in the greenhouse and field have shown that a certain amount of the mycelium must be present before the fungus is able to attack and kill the plant. A small amount of mycelium has always been observed around a carnation plant in the bench a week or more before the plant showed any signs of being diseased. In fact, a certain amount of mycelium is always present in the carnation soil in the greenhouse, but it is only when the temperature is high that the fungus is able to attack the plants. This explains why stem rot of carnations is more severe during the summer months than in the winter. In the field similar conditions are necessary to result in the infection of a plant.

MISCANTHUS SINENSIS (EULALIA JAPONICA).

We have given over our cover page this week to an excellent illustration of this most useful of all the hardy ornamental grasses. We have always known it, as have most of our readers, undoubtedly, as *Eulalia japonica* and that name is liable to be the one by which it will be best known in the trade for many years to come. Absolutely hardy, growing well in almost any situation and bearing beau-

tiful feathery plumes in late summer *Eulalia japonica*, in its several varieties, is indispensable in the composition of grass beds in association with *Arundos*, *Pennisetums*, etc., in mixed borders or in "subtropical" bedding, where it makes a graceful companion and foil for the cannas, castor oil beans and other broad foliaged subjects.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
HATBORO, PA.

BOBBINK & ATKINS

Nurserymen, Florists
and Planters

RUTHERFORD, NEW JERSEY

Nursery Stock

Fruit and Ornamental Trees, Shrubs,
Small Fruits, Clematis, Evergreens
and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS,
AZALEAS, CONIFERS, CLEMATIS,
H. P. ROSES, SHRUBS and HER-
BACEOUS PLANTS.

P. OUWERKERK, 216 Jane St. Woburn Heights
P. O. No. 1, Woburn, N. J.

A. N. Pierson, Inc.
CROMWELL, CONN.

Bedding Plants and Roses

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending Aug. 18th, were recorded as follows:

Bulbs—France, \$2,698; Netherlands, \$592; England, \$6; Bermuda, \$811; Japan, \$2,403.

Plants—Belgium, \$107; England, \$255; Bermuda, \$19.

Clover seed—France, \$208.

Grass seed—Jamaica, \$158.

All other seeds—Denmark, \$1,063; France, \$3,187; Spain, \$320; England, \$495; Hongkong, \$327; Canary Islands, \$3,756.

Nitrate of potash—England, \$120, 637.

Nitrate of soda—Chile, \$53,651.

Other fertilizers—England, \$177; Argentine, \$406.

To a Congressman.

(After receiving a letter promising many packets of free seeds.)
(From the New York Press.)

Dear Sir: I got your little note. But if you want to keep my vote, Don't send the seeds you mention there, But drop them in the empty air. Last year you sent me quite a pack. And, trusting fool, I broke my back To plant them in the yawning ground And make for each its little mound. I watered them with tender care, Protected them from crow and bear, And plowed between the long, straight rows—

Oh, could I punch you in the nose. Tobacco came where beans should be. Now, as I never smoke, you see, The crop was not a welcome one; Tobacco worms had lots of fun. The tapioca wildly grew Where I had looked for green peas new, And rhubarb raised its horrid head In what I thought a parsley bed, While rank alfalfa made a muss Where should have bloomed asparagus. I stuck up frames to hold tomatoes, And on them crept some sweet potatoes. Worst of all, wild turnips popped

Where I the melon seedlets dropped. Please send your seeds to far Peru, Or Mexico, or Timbuctoo; But kindly wipe me off your slate, Or you won't be my candidate.

Notes.

Sheboygan, Wis.—The John H. Allan Seed Co. has increased its capital stock from \$230,000 to \$280,000.

Louisville, Ky.—C. F. Wood, formerly of Wood, Stubbs & Co., has opened a seed brokerage store in the Board of Trade building.

George Clark, of Dreer's, has just returned from an extended trip to the Pacific coast and in between. He is not very enthusiastic about crops. From an acre they used to get some nine hundred pounds of sweet peas. Now they are lucky if they get two hundred. On being asked the why, George, as usual, was non-committal. He put it all on the green fly. It's a queer thing about George that he does not confine this to the Pacific coast. If you ask him about the bad sweet peas, bad asters, bad gladioli on the Atlantic coast, he has the same an-

When You Want to Buy Horticultural Sundries From England

You cannot do better than write for my Trade Price List and a quotation for just what you want from time to time

Large stocks of the following are always on hand

RAFFIA in 3 standard qualities and prices, extra prima long white broad Majunga, first quality Majunga and first quality Tamatave
Samples Sent Post Free

Bamboo Garden Canes, Mottled and Tapering Canes. Best English and French Secateurs. XL ALL Budding and Pruning Knives. Garden Trug Baskets. Mushroom Spawn. All kinds of Fertilizers, XL ALL Insecticides, Fumigators, etc., etc. Trade only supplied.

G. H. RICHARDS, 234 Borough, London, S. E., ENGLAND

Manufacturer and Shipper of all Sundries

14845

Cable Address: "VAPORIZING" LONDON

AMERICAN BULB COMPANY

172 N. Wabash Ave.

CHICAGO, - ILL.

We are now ready to book orders for French and Dutch Bulbs, Lilies and other Florists' Necessities.

WRITE US FOR PRICES

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

sw. Green fly! We would just like to see him put himself in print once. We dare him.

CATALOGUES RECEIVED.

Framingham Nurseries, Framingham, Mass.—Fall Trade Price List for 1916.

Vaughan's Seed Store, Chicago and New York.—Autumn Catalogue, 1916, illustrated.

Peter Henderson & Co., New York.—Wheats, Grasses, Clovers, etc., etc., for Fall Trade.

Thos. J. Grey Co., Boston—Autumn Catalogue, 1916. "Neat but not gaudy." Devoted to bulbs and hardy plants mainly. Fills the bill.

Knight & Struck Co., 258 Fifth Ave., New York—Bulbs for Fall Planting, 1916. Hardy Perennials for Fall Planting, September Offer.

Conard & Jones Co., West Grove, Penna.—New Floral Guide for Autumn

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

1916. A very attractive little catalogue of good things in roses, peonies, herbaceous plants, bulbs and greenhouse stock. Cover in colors.

Terra Nova Nurseries, Aalsmeer, Holland—Special Trade List of Nursery Stock, July, 1916. A very convincing catalogue, nicely illustrated. The American agents for this house are August Rolker & Sons, New York, N. Y.

A. T. Boddington Company, Inc., New York—Wholesale Price List for Fall, 1916. Bulbs, Seeds, Plants and Sundries are all well covered in this practical, seasonable trade list of things that everybody needs. Send for a copy and study prices.

F. Danker, Albany, N. Y.—Ornamental Trees, Evergreens, Shrubs, Roses, Bulbs and Plants for the Garden. This is a very classy publication bound in Dresden blue and gold. A "children's page" is a unique feature well worth copying by other dealers.

Lilium Harrisii Bulbs

	Per 100	Per 1000
5 in. to 7 in.	\$5.00	\$40.00
7 in. to 9 in.	9.00	80.00
9 in. to 11 in.	22.00	

FREESIA REFRACTA ALBA

	Per 100	Per 1000
Mammoth Size	\$1.75	\$12.00

For Immediate Delivery

ROMAN HYACINTHS, 12-15**PAPER WHITE NARCISSUS
GRANDIFLORUS**

Prices on Application

J. M. THORBURN & CO.53 Barclay Street
Through to 54 Park Place
NEW YORK CITY**LILIAM GIGANTEUM
COLD STORAGE**

Extra Selected Stock. Gladiolus for forcing. Nanas, Colvilled or large flowering type. Greenhouse Fertilizers. Ask for 1916 Seed Catalogue.

Joseph Breck & Sons Corp., Seedsmen
47-54 No. Market St., BOSTON, MASS.**W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries**

166 W. 23rd St., NEW YORK

**MICHELL'S ...SEED
HOUSE**

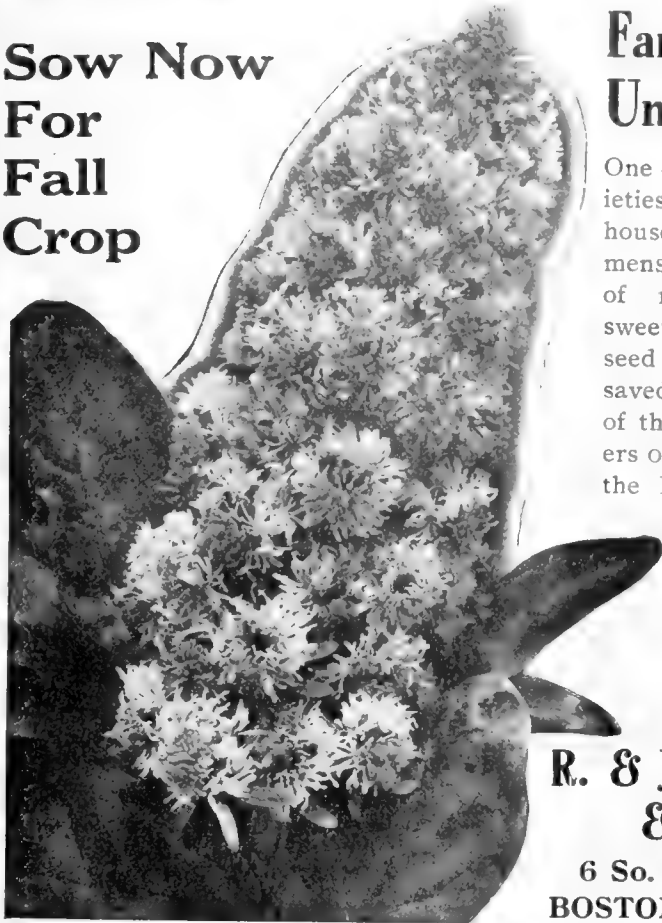
518 Market Street, PHILADELPHIA, PA.

**J. BOLGIANO & SON
WHOLESALE FIELD AND GARDEN SEEDS
Established 1818
Write For Our Low Prices
LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.****KEYSTONE SNAPDRAGON**

Best Winter flowering Pink Snapdragon on the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

**S. S. SKIDELSKY & CO.
PHILADELPHIA, PA.**My new Price List of
**WINTER-ORCHID-FLOWERING SWEET
PEA SEED**
Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.**ANT. C. ZVOLANEK
Sweet Pea Ranch Lompoc, Cal.****MIGNONETTE****IMPROVED ECLIPSE.**

Superior to all others for winter blooming, exhibition, or cutting. Immense fragrant spikes 10 to 15 inches long. Greenhouse grown seed from a re-selected strain. Pkt. 25c., 1/16 oz. \$1.00. Catalogue upon application.

THOMAS J. GREY CO., Seedsmen
29 So. Market St., Boston, Mass.**MIGNONETTE****Sow Now
For
Fall
Crop****Farquhar's
Universal**

One of the finest varieties for the greenhouse, producing immense flower spikes of reddish green, sweetly scented. The seed we offer was saved for us by one of the largest growers of Mignonette for the Boston market.

Ounce	\$15.00
1-4 oz. . .	3.75
1-8 oz. . .	2.00
1-16 oz. . .	1.00

**R. & J. Farquhar
& Co.**6 So. Market St.
BOSTON, - MASS.**LEONARD'S SEEDS**

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.**SEEDS for the FLORIST****ASTERS QUEEN of the
MARKET.**

The best extra early variety, large, double flowers, on long stems, in colors: Crimson, Dark Blue, Light Blue, Rose Peach Blossom, White.

Trade Packet, 20c., Oz., 75c.

Sweet Peas, Cyclamen, Primulas, Lily of the Valley, from Our Own Cold Storage Plant.

Our Trade List Mailed on Application.

FOTTLER, FISKE, RAWSON CO., THE SEED STORE BOSTON
Faneuil Hall Square**POINSETTIAS****August Shipment**

True type, fine 2½ inch plants, shipped in paper pots, \$6.00 per 100, \$50.00 per 1000.

A. HENDERSON & CO.

211 N. State St.

CHICAGO, ILL.

NEW CROP SEEDS**PANSY SEED.** Giant flowering florist mixture. American grown. (Best money can buy.) 50c. per tr. pkt., ¼ oz. \$1.50, oz. \$5.00.
PANSY SEED SPECIAL. Greenhouse mixture for forcing; long-stemmed. \$1.00 per tr. pkt., ½ oz. \$1.50, ¼ oz. \$2.50; oz. \$3.00.
SWEET PEAS. Zvolanek's Orchid Flowering in all varieties. I have his agency this season.**ROMAN J. IRWIN,**
Plants, Cuttings, Bulbs, Seeds.
108 West 28th Street - New York.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Cost of Calling Foreign Deliveries Must be prepaid

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

For KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for New York. Write or Phone to

MAX SCHLING

22 West 59th Street, - Adjoining Plaza Hotel

Best Florists in the States as References.

EUROPEAN ORDERS EXECUTED.
Members of the Florists' Telegraph Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO**DAVID CLARKE'S SONS**

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York
Telephone 1553-1553 Columbus

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

WORCESTER, MASS.

Randall's Flower Shop

HARRY L. RANDALL, Proprietor.

Member Florists' Telegraph Delivery Association

Of Interest to Retail Florists

FLORISTS' TELEGRAPH DELIVERY.

In acknowledging my worthy successor, W. F. Gude of Washington, D. C. as president of the Florists' Telegraph Delivery, I feel that there are some statements pertinent to this organization due the members and past officials.

It has been my pleasure to see this organization grow from nothing to three hundred and sixty members, consisting mainly of the best retailers in the country; also to have this organization advanced from three hundred dollars in arrears in the guarantee fund to approximately six thousand dollars gross balance. The annual business transacted by the members of this organization is estimated at well over a million dollars per year. This wonderful growth has been due in part to the untiring efforts of several of the members, particularly Philip Breitmeyer of Detroit, Paul Schulz of Louisville, Geo. E. M. Stumpp of New York, W. J. Smyth of Chicago, W. J. Palmer of Buffalo and numerous others. The officers and directors of the Association have worked untiringly and have given their time and money to promote this organization's welfare. There has never been a misunderstanding among any of them and on the whole, progress has been one of harmony and general upbuilding. I wish to pay particular tribute to the untiring efforts of Secretary Pochelon and Treasurer W. L. Rock, whose work is scarcely appreciated as yet. The adjourned meeting in Chicago, Oct. 11th and 12th will undoubtedly be well attended and a source of much benefit to the whole flower profession and plans are under way which will be of decided value in the sale and promotion of flowers throughout the country.

I wish again to thank all those who have been instrumental in the success of the Florists' Telegraph Delivery, not forgetting the trade press.

IRWIN BERTERMANN.

Past President.

Indianapolis, Ind.

NEW FLOWER STORES.

Tulsa, Okla.—O. O. Boston, 16 East Third street.

Port Chester, N. Y.—John Smith, 132 North Main St.

Westerly, R. I.—Louis P. Rankin, Rhode Island Hotel.

Detroit, Mich.—Schulte & Haley, successors to M. C. Haley, 107 Broadway.

Albany, N. Y.—George I. Cain, 6 Second street, succeeding Felix Menand.

Chicago—Johnson & Spetz, 1924 E. 71st St., August 30th. Fred Ronsley, 17 E. Jackson Boul.; about Sept. 15th.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery Association.



GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists' Telegraph Delivery

**IN THE
National Capital**

At your service to deliver Flowers or Designs on Order by Telegraph or otherwise. Prompt Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 306. Long Dist. Bell Phone 2180
Members Florists' Telegraph Delivery

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEWPORT, R. I.

145 Bellevue Avenue.

WE GUARANTEE SATISFACTION
MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1836 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1801 and L 1832.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty

ASK FOR LIST
THOMAS ROLAND, Nahant, Mass.

KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State
St.
Albany, N. Y.—The Rosery, 23 Steuben
St.
Albany, N. Y.—William C. Gloeckner, 97
State St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn. The Florist, 124 Tremont
St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.
Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.
Denver, Col.—Park Floral Co., 1843
Broadway.
Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.
New London, Conn.—Reuter's.
Newport, R. I.—A. T. Bunyard, 145 Belle-
vue Ave.

New York—J. H. Small & Sons, 505 Mad-
ison Ave., at 52d St.
New York—David Clarke's Sons, 2139-
2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St.
and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth
Ave.
New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.
Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

Penn. The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 Tremont St., BOSTON

REUTER'S Members Florists' Telegraph Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of

TORONTO

Delivered on mail or telegram order for
any occasion, in any part of the Dominion.

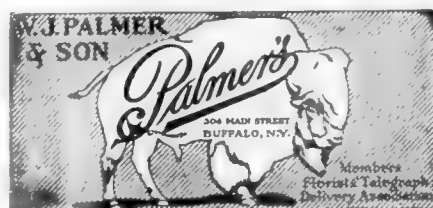
JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.



NEWS ITEMS FROM EVERYWHERE

CHICAGO.

Mr. and Mrs. August Lange returned Monday from Houston via steamer to New York.

H. A. Stone is mourning the death of Mrs. Stone's mother, who has been a member of his family for years.

Mrs. John W. Poehlmann and daughter, Frieda, are spending a few weeks with relatives in New Hampshire.

A. H. Schneider, well-known florist of Oak Park, Ill., lost his father Aug. 28th. He died while walking about the gardens.

Tom McAllister is an enthusiast on S. A. F. conventions and the one at Houston is receiving his heartiest commendations. He returned via Dallas, Ft. Worth and the Iron Mt. route.

C. B. Knickman, who represents McHutchison & Co., from coast to coast, is here on his way back from California. The western coast is reported as decidedly dull from a business standpoint.

Announcements of the 1916 convention of the Vegetable Growers' Association of America, at the La Salle Hotel, Sept. 26, 27, 28, 29, are out, and show a long list of attractive features on the program.

Mr. and Mrs. Grover Rambler of Shreveport, La., are taking in Chicago on their honeymoon trip. Mrs. Rambler was formerly Miss D. E. Ruch, and had built up a good business as a florist in Shreveport, which will be continued as before.

Mr. and Mrs. F. C. Suchy and son, of San Antonio, Tex., have spent two weeks in and about Chicago. They are traveling by auto, and left for the east, expecting to stop at various cities on the way to Philadelphia, where they will take a boat for Galveston.

John G. Poehlmann, who has been in the Battle Creek Sanitarium for the past four weeks, has returned to his position as manager of the store on East Randolph St., greatly improved in health. Mr. Poehlmann devoted much time to his father, the late John W. Poehlmann, during his long illness, and has not been quite well since his death.

A. F. Longren, for several years traveling salesman for Poehlmann Bros. Co., is home from his summer trip, which terminated at Houston. Mr. Longren's impressions of the sunny south, from a salesman's viewpoint, are not altogether pleasing and he is not optimistic about an immediate marked increase in southern business.

Among the Chicago visitors this week is Pontius Wolff, who comes from Molndal-Goteborg, Sweden. He is accompanied by his sister and the visit to this country is largely to see its horticultural products and methods of cultivation. Mr. Wolff is much interested in horticultural societies and was one of the judges at Belgium's International Show three years ago. He was surprised at the quantity of made-up baskets and fern dishes used here and says they do not sell abroad.

PITTSBURGH.

W. P. and S. L. Gallaher have moved their flower shop from the Fifth Avenue Arcade to the Buhl Building at 204 Fifth avenue.

W. T. Ammerman of Altoona, Pa., who comes from the local Carnegie Institute of Technology, has been engaged in the landscape department of A. W. Smith Co.

Mr. and Mrs. Arthur C. Hall are at Atlantic City, N. J. Theodore P. Langhans and son are on a fishing trip in Canada. Walter Breitensteen has returned from an extended vacation at Sandy Creek.

The Ludwig Floral Company have taken the foyer of the main building of the Western Pennsylvania Exposition Society for display and selling during the six weeks' exposition, which opened last Wednesday. The firm also has the contract for the decoration of Music Hall and other sections of the exposition buildings.

C. H. Hadley, Jr., investigator in entomology at Cornell has been selected to head the extension work in entomology to be opened this fall at Penna. State College. His appointment is made possible through the operation of the Smith Lever bill, passed two years ago by the federal government, providing funds for agricultural extension work.

NEW YORK.

Gardeners writing in the correspondents columns of the New York Sun are severely criticising the New York Botanical Garden for the low wages paid and exacting time rules especially for the gardeners in the greenhouse department.

An automobile ride to Freeport, L. I., and then by boat to Green Island, from the starting place at Fifth avenue and Twenty-third street, is the programme mapped out for the members of the Greenwood Florists' Employees Association for their Labor Day outing, Sept. 4. James J. Daily, standard bearer of the association, is head of the Arrangements Committee.

PHILADELPHIA.

Charles Sim, Rosemont, sailed on the S. S. St. Paul, Aug. 26th, on a six weeks' trip to the old country.

President Samuel S. Pennock, of the American Rose Society announces that over fifty new members have joined the society within the past month, also that the thousand-dollar guarantee fund for research purposes is now fully assured and that Cornell has already started on the work. Enthusiasm is the word. No great work was ever accomplished without enthusiasm. Keep S. S. P. and his able bunch of co-operators in a while longer—we'll forget our families, friends and fatherlands—and call in the doctor for the Rose Fever.

BUFFALO.

The new home of the Wm. F. Kastig Co. will be located at 568-570 Washington street, near Chippewa, and in the center of the market district. The building is a four-story brick and

basement and its spacious floors are 50x90 and well lighted. An alley adjoins the rear of the building for carting and shipping purposes and the premises are well laid out for a wholesale flower market. There are passenger and freight elevators and the building is equipped with steam heating. Plans are under way for refrigerators 12x36 for cold storage purposes. On Monday, September 4, the firm will be located permanently and open for business at the new home, though only part of the building will be used for the time being.

BOSTON.

John J. Williams, of Cambridge, and Ethel F. Strom, of Somerville, were married on August 20.

The annual sale of choice of stalls at the Boston Co-operative Market on Saturday, September 9, at 9.30 A. M.

Welch Bros. Company are getting ready to move from their old location at 226 Devonshire street to the basement of the premises now occupied by Patrick Welch at 262 Devonshire St.

America gladioli four feet tall are being marketed by the Mann Company. The bulbs are home grown from bulbs imported from Holland three years ago and the spikes are the finest we have seen anywhere.

The annual meeting of the Florists' Bowling Association will be held on September 12, when plans for the season will be mapped out. Write to J. Sloane, secretary, Flower Exchange, Winthrop square, if you wish to join the aggregation.

The new city headquarters of the Waban Rose Conservatories at 5 Winthrop square was opened on Thursday of this week for business. The place is spacious and well fitted with every apportionance and facility. Mr. Montgomery is planning to cut a watermelon one of these days in honor of the occasion.

NEWPORT, R. I.

Summer American Beauties are a leading crop with Carl Jurgens. There is demand for all he can turn out.

The Newport florist stores are all doing good business this season. Here one sees Gardenia Fortunei blooms of marvelous perfection such as can be found nowhere else in this country at least.

Anyone interested in the possibilities of the transplanting of large trees will find remarkable examples of successful moving of big lindens, elms and oaks on the Wells estate where Andrew Meikle has been in charge for many years. On this place many fine specimens of rare conifers are to be seen.

One of the most impressive and dazzling sights in Newport is the sunken garden on the Berwynd estate where for 23 years Bruce Butterton has presided. Flanked by topiary gardening and formal groups with a rich background of deciduous groves, Begonia Erfordi is here seen at its best—8,000 plants in trim geometrical beds cut in the greensward making a picture long to be remembered.

BASKETS BASKETS BASKETS

BUY YOUR FALL SUPPLIES NOW

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Don't Miss This Chance

Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

1129 Arch Street, PHILADELPHIA, PA.

PICTURESQUE LA SALLE COUNTY.

La Salle County, Ill., is an ideal place for a short vacation. In the making of a prairie state, nature here seems to have suddenly changed her mood, and from rolling smoothly the miles and miles of earth to a monotonous level, she turns to scooping out and piling up until the result of her freakish work is a scene unexcelled



Canyon, Deer Park, Ill.

for picturesque beauty by even the mountains of Colorado. As if to atone for the plain surface of the rest of Illinois three great special features of rock formation have been grouped together within eight miles.

Starved Rock, formerly called Fort St. Louis, is the place where the first white settlement was attempted in Illinois, in 1682, by La Salle, who hoped to make it a great fur trading center. Nearby were the Illinois, the Shawnee, the Miami, the Iroquois and other Indian tribes, whose battles for possession finally ended in 1769, by a clash which left the Illinois warriors starving upon the great rock, which event is commemorated by the name then given to the old fort, and a few years ago Starved Rock and its ad-

joining canyons became a State Park, where 100,000 visitors journey yearly.

Deer Park, Ill., has been noted for its great canyon three-fourths of a mile long and from 75 to over 100 feet deep. It is a part of a tract originally secured by Wm. Clayton from the government. With the passing of years the property came into the possession of F. W. Matthiessen and now includes 1600 acres reaching to Starved Rock Park, and is considered the finest private estate in the Illinois. It is the owner's pleasure to give the public the enjoyment of the canyon and surrounding grounds and he has spent thousands of dollars in cement bridges, steps, etc., with pavilions and parking places for autos. A nominal admission fee of ten cents is charged and turned over to the women's clubs who police the park and use the rest for charity. The gardener in charge is Samuel Holmes. Mr. Holmes says the cold water from an artesian well, though unlimited in supply, has not met the need of the gardens, and geraniums, particularly, have suffered in the hot sun this summer. There are no conservatories, and all the plants are started in frames.

Emptying into the Vermilion River three miles from Deer Park, are beautiful Bailey's Falls, which in mid-summer are a wonderful pile of bare jagged rocks, finished at the top with a broad level shelf of rock. Two giant oaks are found on the Chapin farm in one of the beautiful valleys. From tip to tip the branches measure 86 feet and the trunks which are without scar have a girth of 13 feet well above the ground. A noble elm tree is a fitting companion, being almost as large.

VISITORS REGISTER.

New York.—T. J. Wolf, Waco, Texas.
Cleveland, Ohio.—J. K. M. L. Farquhar, Boston, Mass.

Ocean View, Va.—Geo. C. Shaffer and son, Washington, D. C.

Phila.—F. W. Heckenkamp, Jr., Quincy, Illinois; Geo. J. Starr, Wilson, N. C.

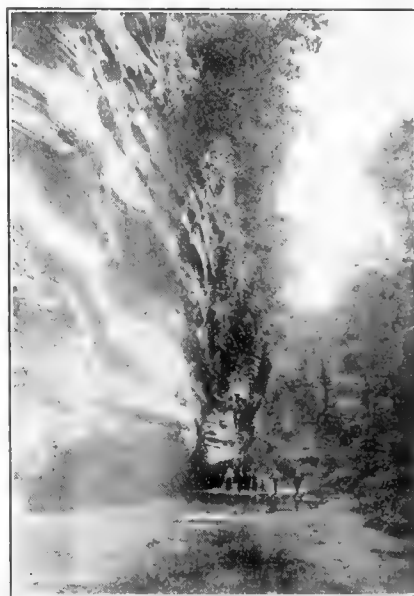
Boston.—H. C. Neubrand, representing A. N. Pierson Inc., Cromwell, Conn.; Dr. B. T. Galloway, Washington, D. C.

Washington, D. C.—Johan Hage-

meyer, Pasadena, Cal.; Sidney H. Bayersdorfer, Phila., Pa.; Mr. and Mrs. George J. Starr, Wilson, N. C.; Thomas Wools, Waco, Texas.

St. Louis.—Phil. McKee, repr. the American Greenhouse Mfg. Co., Chicago; A. T. Longren, Burlington, Iowa; Paul Berkowitz of H. Bayersdorfer & Co., Phila.

Cincinnati.—Mr. and Mrs. Purllant.



Canyon, Deer Park, Ill.

Winchester, Ky., Miss D. E. Ruch, Shrewport, La., Ross E. Adgah of the McCallum Co., Pittsburgh, Pa., Julius Dilloff and Milton Alexander, New York City.

Chicago.—George A. Kuhl, Pekin, Ill.; C. B. Knickman, New York; B. H. Klus, Anderson, Ind.; J. J. Karins, representing H. A. Dreer, Phila.; Fred Rentschler and Jacob Kolb, Madison, Wis.; Mr. and Mrs. Grover Rambler, Shreveport, La.; George H. Blackman, Evansville, Ind.; Mr. and Mrs. F. C. Suchy and son, San Antonio, Texas; Pontius Wolff, of Molndal-Goteborg, Sweden; W. W. Coles, Kokomo, Ind.; Mr. and Mrs. H. S. Hill, Maquoketa, Ia.; Earnest Hiehle of J. W. Dudley Sons Co., Parkersburg, W. Va.

LET US SUGGEST to you during the
hot months of the year
BEAUTIES
\$1.00—\$3.00 dozen

Grown from young plants for summer blooming, is an item we can recommend to you. The flowers are of a fair size, good color and clean foliage. If you cannot get them elsewhere, try us.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S
Wholesale & Commission Florists
FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964—1965

EDWARD REID
WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER
122 West 25th St., New York
Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RIEHOOND, IND.

Please mention Horticulture when writing.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE

Plantmen and Florists

37 and 39 West 28th St., NEW YORK



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.
If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

226 DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON August 31		ST. LOUIS August 28		PHILA. August 21	
Roses						
Am. Beauty, Special.....	20.00	to 35.00	15.00	to 25.00	20.00	to 25.00
" " Fancy and Extra.....	15.00	to 20.00	8.00	to 10.00	10.00	to 12.00
" " No. 1 and culls.....	3.00	to 8.00	1.00	to 5.00	2.00	to 8.00
Russell, Hadley.....	2.00	to 10.00	5.00	to 10.00	2.00	to 12.00
Killarney, Hillingdon, Ward, Extra.....	4.00	to 8.00	5.00	to 8.00	4.00	to 6.00
" " Ordinary.....	1.00	to 2.00	3.00	to 4.00	2.00	to 4.00
Arenburg, Radiance, Taft, Key, Extra.....	3.00	to 8.00	.....	.....	4.00	to 6.00
" " Ordinary.....	1.00	to 2.00	.....	.....	2.00	to 4.00
Ophelia, Mock, Sunburst, Euler, Extra.....	3.00	to 8.00	5.00	to 8.00	4.00	to 6.00
" " Ordinary.....	1.00	to 2.00	2.00	to 3.00	2.00	to 4.00
Carnations.....	.....	.....	2.00	to 3.00	.....	.....
Cattleyas.....	40.00	to 60.00	30.00	to 40.00	60.00	to 75.00
Dendrobium formosum.....	.....	.....	.....	.....	.....	.....
Lilies.....	6.00	to 10.00	10.00	to 12.50	8.00	to 10.00
Lily of the Valley.....	4.00	to 6.00	4.00	to 5.00	3.00	to 6.00
Snapeadragon.....	.50	to 1.00	3.00	to 4.00	.....	.....
Gladioli.....	1.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Asters.....	.50	to 4.00	.....	.....	1.00	to 4.00
Dahlias.....	1.00	to 2.00	1.00	to 2.00	1.50	to 2.00
Gardenias.....	20.00	to 25.00	.....	.....	.....	.....
Adiantum.....	.....	.....	1.00	to 1.25	.75	to 1.00
Smilax.....	10.00	to 12.00	12.00	to 15.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.).....	20.00	to 25.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co.
Wholesale Florists

568 570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

BOSTON The situation in the cut flower trade continues exceptional and peculiar.

There is not any very heavy demand, but the supply of desirable material is so light, that conditions are continually strained and prices hold at a level almost beyond belief. Asters are better in quality than they were last week. Gladioli are seen in all qualities, the choice specimens bringing record summer prices. Lilies are in good demand at approximate Easter figures. There are no carnations, but a few sweet peas of acceptable quality are seen. Salpiglossis, calendulas, marigolds, cockscomb, cosmos—in fact, anything from the garden, receives respectful attention from the buyers just now. The street fakir is among the lost tribes for the present.

BUFFALO Stock has been scarce for the past two weeks.

This applies even to asters and gladioli for which the Buffalo market and vicinity has been the leader. The early aster crops burned up and the late-branching does not look promising. Not alone asters and gladioli but roses of good quality are scarce. Lilies have had a good summer demand and have done well in price. Beauties are only fair in quality and there is no special demand for them. There are plenty of greens, such as ferns, Asparagus sprengeri and adiantum.

CHICAGO The general scarcity of good stock continues and there is no reason for expecting a change within the next two weeks or until carnations are further advanced and more cool weather puts new life into the roses. Chicago growers have now had just one week of moderate weather since the first of July, and how much that can be made to do for the stock will differ with the conditions, but at best the results will be limited. Asters are coming with the greater proportion far down the scale and the good ones sell quickly. Carnations are mostly small and fit only for filling in, the stems being short and flowers often burned. Roses are equal to the demand in number, but buyers cannot always have the quality they are looking for, as good stock is very scarce. Lily of the valley continues to bring the top price. Orchids are very scarce. Gladioli are larger and better even than last week, with a good price waiting for the grower. There is no kind of good stock that can be said to be in over-supply.

Business excellent, **CINCINNATI** but very little good stock available and practically everything is cleaning up on sight. There is a fair cut of lilies and gladioli are plentiful. Asters are on the short side owing to the tardiness of the late crop. All that do come in have been finding a good sale. Cosmos and dahlias are not very plentiful as yet. Smilax is very scarce. Bronze galax has, been enjoying an exceptionally strong demand.

Market conditions are **NEW YORK** not as satisfactory as they were a week ago. Flowers of all kinds are increasing in quantity and quality.

BEAUTIES

Are improving in quality every day; nothing better to be had now.

From \$1.00 to \$3.00 per doz.

RUSSELLS

Are also very good at present.

\$6.00, \$8.00, \$10.00 and \$12.00 per 100

Store Closed at Noon, Monday, Sept. 4th

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	CINCINNATI August 28	CHICAGO August 28	BUFFALO August 28	PITTSBURG August 28
Roses				
Am. Beauty, Special.....	20.00 to 25.00	25.00 to 39.00	20.00 to 25.00	..... to 25.00
“ “ Fancy and Extra.....	15.00 to 20.00	20.00 to 25.00	12.00 to 15.00	..... to 20.00
“ “ No. 1 and culls.....	8.00 to 15.00	5.00 to 15.00	6.00 to 10.00	..... to 6.00
Russell, Hadley.....	..... to 3.00	3.00 to 20.00	..... to 6.00	..... to 6.00
Killarney, Hillingdon, Ward, Extra Ord.	5.00 to 6.00	6.00 to 8.00	4.00 to 6.00	6.00 to 8.00
Arenburg, Radiance, Taft, Key, Ex. Ord.	3.00 to 4.00	2.00 to 4.00	2.00 to 4.00	8.00 to 4.00
Ophelia, Mock, Sunburst, Euler, Ex. Ord.	5.00 to 6.00	7.00 to 8.00	5.00 to 6.00	4.00 to 7.00
Carnations	3.00 to 4.00	2.00 to 4.00	2.00 to 4.00	..... to 2.00
Cattleyas.....	..... to 2.00	.95 to 1.00	1.00 to 2.00	..... to 2.00
Dendrobium formosum.....	..... to 50.00	50.00 to 75.00	..... to 40.00	..... to 40.00
Lilies	8.00 to 10.00	10.00 to 12.00	8.00 to 10.00	8.00 to 10.00
Lily of the Valley	5.00 to 6.00	3.00 to 6.00	4.00 to 6.00	..... to 6.00
Snappdragon	4.00 to 6.00	..... to 6.00	..... to 6.00	..... to 6.00
Gladioli	4.00 to 6.00	3.00 to 6.00	2.00 to 4.00	3.00 to 6.00
Asters	2.00 to 4.00	1.00 to 6.00	1.00 to 2.00	3.50 to 2.00
Dahlias	2.00 to 3.00	..... to 3.00	1.00 to 3.00	..... to 3.00
Gardenias.....	..... to 1.00	..... to 1.00	..... to 1.25	..... to 1.50
Adiantum.....	..... to 1.00	..... to 1.00	..... to 1.25	..... to 1.50
Smilax	25.00 to 20.00	15.00 to 20.00	..... to 15.00	10.00 to 12.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00 to 35.00	25.00 to 50.00	25.00 to 50.00	30.00 to 40.00

Asters are more plentiful and those of finest quality are selling well. Lily of the valley is very much more in evidence, and while commission men are endeavoring to keep up stiff prices, the supply is accumulating and prices will be compelled to drop. There are four grades arriving in the market, selling at prices accordingly. Lilies are very much more plentiful. Rubrums, long-stemmed, are selling better, but the short-stemmed flowers are hard to move. Roses of the better quality are realizing fair prices for the season. Cattleyas are still very scarce, and owing to the scarcity fabulous prices are being asked and obtained. All things considered, business is very slow and unsatisfactory, and the question which is now commencing to worry the dealers is the railroad strike, as the railroads will not accept perishable goods and cut flowers will come under this heading.

The market here **PHILADELPHIA** at present is in the sellers' favor.

The grower and his agent, the commission man, have it mostly all their own way. No matter how stern and adamant the retailer looks at the salesman—he quails not! All the

dramatic arts of Greece and Italy avail nothing. For a midsummer market there are probably fewer good flowers to be had—especially in outdoor flowers like asters—than any of us can remember. Consequently, material that usually has gone to the dump without a doxology has really brought good money. What's the matter with this season anyway? There are no good sweet peas, no good asters, no good gladioli. In the latter the attractive, delicate and distinctive colors are little in evidence while the dull and wheezy ones stand around, a disgrace to the clan, and are taken only as a medicine. White roses are particularly scarce. New-crop Beauties are in evidence but they hang fire a little. The bright particular star in the rose market just now is Russell. Fine flowers in quantity and they ship better than the others. Lily of the valley is hard to get even at six and a cattleya costs a dollar. Practically no carnations; new crop not yet commenced. Taking it all around it is certainly a remarkable market for this season of the year and one that will probably long be remembered.

(Continued on page 327)

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephone: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street
Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK
Telephone 5235, Farragut.
Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE { 608 } MADISON SQ., NEW YORK
609

JOHN YOUNG & CO.
WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.
Tel. (1583) Mad Sq. 119 W. 28 St., New York
(5883)

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.
Wholesale Commission
READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE { 2281 } FARRAGUT 131 West 28th St., NEW YORK CITY
3089

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.
WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND

GARDENIAS, DAISIES, ROSES, CARNATIONS

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 7062 Madison

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones { 1664 } Madison Square
1665

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending Aug. 26 1916		First Half of Week beginning Aug. 28 1916	
American Beauty, Special	15.00	to 25.00	15.00	to 25.00
" " Fancy and Extra	10.00	to 15.00	10.00	to 15.00
" " No. 1 and culls	2.00	to 8.00	3.00	to 8.00
Russell, Hadley	2.00	to 8.00	2.00	to 8.00
Killarney, Hillingdon, Ward, Extra	3.00	to 6.00	3.00	to 6.00
" " Ordinary	1.00	to 2.00	1.00	to 2.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 6.00	4.00	to 8.00
" " Ordinary	1.00	to 2.00	1.00	to 2.00
Ophelia, Mock, Sunburst, Euler, Extra	4.00	to 8.00	4.00	to 8.00
" " Ordinary	1.00	to 2.00	1.00	to 2.00
Carnations	.50	to 1.00	.50	to 1.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for do-
ing our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK
Phones 2036, 2037, 558 Farragut

Frank H. Traendly Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797-798-799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality.

114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13—8510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 325)

PITTSBURGH Owing to the prolonged stretch of drought and heat, asters have dropped out of sight almost entirely. Otherwise, there are now just about enough flowers to take care of the trade. For the week past there has been somewhat of a demand for gladioli and lilies, which are coming in of fair quality. Roses, too, have commenced to come in again.

Business is quiet with **ST. LOUIS** the retailers and the market is not in an overcrowded condition any one day. Stock is of very poor quality and prices are low. The best sellers are asters and these clean up daily at good prices. Roses are poor and the short stemmed ones do not bring much at any time. Any thing good in carnations is out of the question for the present at least. Gladioli has good call and are of extra good quality. Tuberose stalks were in heavy last week. Lilies are in good demand. Lily of the valley is scarce.

There is a great need for rain in this locality. Conditions this season have been such that the growers are selling flowers which in other years would be discarded as worthless, and they are getting good prices for what they term "trash." It is a hard matter to get good stock in any line. A few thousand roses are received daily from local houses and were it not for these the market would be largely void of desirable stock. Old stock carnations are off the market and the new flowers have been delayed by the intense heat. Lily of the valley is very poor and there is none of local growth to be had. Orchids are very scarce. There are some few gardenias still to be had. Gladioli are on the wane. Dahlias are somewhat better, but asters are nearing an end.

TO THE GROWERS OF ROSES.

This is to inform you that members of the American Rose Society have been raising money to co-operate in employing a trained plant pathologist to investigate diseases of roses. Sufficient money has now been obtained to assure this work, which is already underway. Doctor L. M. Massey of the New York State College of Agriculture, Cornell University, Ithaca, is conducting the investigations. It is hoped that all growers of roses will now take advantage of this arrangement, not only to obtain what little information there is already at hand, but to co-operate in ways which will be suggested from time to time. Through co-operation with Doctor Massey, the growers will greatly increase the efficiency of the investigation and obtain the greatest returns from their investment.

First of all, it seems desirable to make a rose disease survey such as will acquaint us with the various diseases, together with their range and the extent of injury caused by them in this country. In order that this survey may reach its maximum efficiency, it will be necessary for the growers to co-operate by sending specimens of

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2688

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Aug. 26 1916		First Half of Week beginning Aug. 28 1916	
Cattleyas.....	20.00	to 75.00	25.00	to 100.00
Dendrobium formosum.....	20.00	to 25.00	20.00	to 50.00
Lilies.....	1.00	to 4.00	1.00	to 4.00
Lily of the Valley.....	2.00	to 6.00	2.00	to 6.00
Snagdragon.....	.50	to 1.00	.50	to 1.00
Gladioli.....	.50	to 2.00	.50	to 2.00
Asters.....	.35	to 2.00	.25	to 3.00
Dahlias.....	1.00	to 2.00	.50	to 2.00
Gardenias.....	10.00	to 25.00	10.00	to 25.00
Adiantum.....	.95	to .50	.25	to .50
Smilax.....	6.00	to 10.00	8.00	to 12.00
Asparagus Plumosus, & Spren (100 bunches).....	10.00	to 15.00	10.00	to 15.00

diseased plants. Franked tags will be supplied on request. It is hoped that each grower will interest himself in this work sufficiently to collect and send diseased material together with a brief statement regarding varieties affected, nature and extent of injury, time of appearance of the disease, and other points of interest which may have been noticed. Acknowledgment of receipt of material will be made and such information as is available in the line of control will be given. Many growers will be visited, but it is hardly necessary to say that it will be impossible to visit all.

The material sent should be freshly collected and should show various stages in the development of the disease. Where roots are sent it will usually be undesirable to enclose any soil. Where convenient, specimens should be mailed so as to reach Ithaca the latter part of the week. Doctor Massey may be away from the city during the early part of the week and the material should receive immediate attention upon its arrival.

Place leaves, buds, etc., between the leaves of an old newspaper, a few between each two sheets. Then roll into a tight bundle, wrap in stout paper. Tie well, attach one of the franked tags on which you have written your name, address and mail. It will go postage free.

Yours for success in this undertaking,

H. H. WHETZEL,
Head of the Department of Plant Pathology,
N. Y. State College of Agriculture, Cornell University.

ST. LOUIS.

The St. Louis Florists' Union met at Library Hall on Aug. 21 to discuss the question of Sunday closing.

F. H. Weber and family, and August Hummert and family are home again from their western vacation trip.

Eli Mioux, foreman for the Bourdet Floral Co., has resigned to start business of his own. He will build greenhouses at Carlyle, Ill.

NEW CORPORATION.

New York, N. Y.—Schloss Bros., florists' ribbons, capital stock, \$50,000. Incorporators: E. Schloss, 549 West 113th street; C. A. Houston, 200 Fifth avenue; A. Schloss, Long Beach, L. I.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists
57 WEST 28th STREET, NEW YORK
Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission
Consignments of
Good Stock Solicited
PERCY W. RICHTER, Mgr., NEW YORK
111 W. 28th Street

HERMAN WEISS

Wholesale Florist
Experienced, Progressive and can handle shipments of growers' product satisfactorily.
106 West 28th St., NEW YORK
Tel. Farragut 3066.

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street
167 & 3058 Farragut NEW YORK
Established 1888 Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists
110 West 28th St., New York
We Solicit Consignments of New England Grown Novelties.

J. J. COAN, INC.

115 WEST 25TH STREET
New York
Tel., Farragut 5413-5891
EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST
Wholesale and Commission Florists
32 Otis Street, 2 Winthrop Square
BOSTON, MASS.
Telephone 2618-2617-2618, Main.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

ADIANTUM FARLEYENSE GLORIOSA

Henry A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

A. L. Miller, Jamaica, N. Y.
Asparagus Plumosus.
For page see List of Advertisers.

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-
LINGDALE GREENHOUSES, Collingdale, Pa.

AUCTION SALES

The MacNiff Horticultural Co.,
New York City.
For page see List of Advertisers.

Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price-
list.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

BEGONIAS.

Mrs. J. A. Peterson (New). 2½ in. pots,
\$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda,
N. Y.

"King Ideal" Boiler.
For page see List of Advertisers.

Hitchings & Co., New York City.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made.
Write for list. HOLTON & HUNKEL CO.,
Milwaukee, Wis.

BOX TREES

BOX TREES—Standards, Pyramids and
Bush. Price list on demand.

JULIUS ROEHRS CO., Rutherford, N. J.

BOXWOOD

August Rolker & Sons, New York City.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
Freesia Refracta Alba.

For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
French and Dutch Bulbs.

For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
Lily Bulbs.

For page see List of Advertisers.

August Rolker & Sons, New York City.
Rainbow and Purity Freesias.

For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

The MacNiff Horticultural Co.,
Holland Grown Bulbs.
New York City.

For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.

For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

Anglin & Walsh Co., Williamsbridge, N. Y.
Freesia Purity Bulbs.

For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.

NEW YORK BRANCH, 8-10 Bridge St.

Mr. B. Progressive, Florist,
Everywhere, U. S. A.

Dear Sir: It will be a decided advantage
as regards prices and quality to place your
order with us.

Soliciting your order through this ad
cuts down the overhead selling expenses
and you positively get lower prices and
better quality. Our terms are liberal and
are a guarantee that you get a square
deal, all bulbs guaranteed true to name or
money refunded.

Write us and upon request we will mail
you our booklet giving prices f. o. b. New
York or Chicago, and we also cheerfully
furnish you with any information that
may be desired. Those of our friends who
will mail us a list of their requirements
will find it has paid them to do so.

Awaiting to hear from you at your pleas-
ure, we remain, Yours very truly,

Westerbeek & Klyn,
Sassenheim, Holland.

Write to WESTERBECK & KLYNN, 14
STONE ST., NEW YORK, N. Y.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. J. Goddard, Framingham Centre, Mass.
Crimson Carnation Doris.
For page see List of Advertisers.

SURPLUS CARNATIONS, strong and
healthy: 1,300 Enchantress; 450 Beacon;
180 Philadelphia; 350 White Wonder; 300
White Perfection; \$5.00 per hundred, \$45.00
per thousand. SAMUEL KINDER & BRO.,
Bristol, R. I.

CARNATION STAPLES

Split carnations quickly, easily and
cheaply mended. Pillsbury's Carnation
Staple, 1000 for 35c.; 3000 for \$1.00 post-
paid. I. L. PILLSBURY, Galesburg, Ill.

CARNATION SUPPORTS

The Carnation Support Co., Connersville,
Ind.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.

Pompon Chrysanthemums.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.

For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Emma, a Garza Anemone, Double
Pompon, pale pink.

DAHLIAS

ORDERS BOOKED ANYTIME

For Fall or Spring delivery. Wholesale and
Retail. Send for Catalogue. NORTHBORO
DAHLIA & GLADIOLUS GARDENS, J. L.
Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest,
Best. New color, new form and new habit
of growth. Big stock of best cut-flower
varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbin & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

EUONYMUS RADICANS

Euonymus Radicans. Several thousand,
from rooted cuttings to sturdy plants four
and five years old. This is a large-leaf,
quick growing variety of Radicans. It
originated in this town and is extremely
desirable. Price and sample plants on ap-
plication. F. E. PALMER, INC., Brook-
line, Mass.

FERNS

A. M. Davenport, Watertown, Mass.
Ferns in Flats.

For page see List of Advertisers.

For List of Advertisers See Page 307

FERNS—Continued

R. Vincent, Jr., & Sons Co., White Marsh, Maryland.
Boston Ferns.
For page see List of Advertisers.

H. H. Burrows & Son, Whitman, Mass.
For page see List of Advertisers.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FLORISTS' PLANT STOCK

Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

G. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FREESIAS

August Rolker & Sons, New York City.
Rainbow and Purity Freesias.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums S. A. Nutt, rooted cuttings,
\$8.00 per 1,000; 2½ in., \$15.00 per 1,000.
First class stock. Cash. FRANK LEITH
& SON, Haverhill, Mass.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, cas-
tles, globes, aquarium, fish goods, nets,
etc., wholesale. FRANKLIN BARRETT,
Breeder, 4815 D St., Olney, Philadelphia,
Pa. Large breeding pairs for sale. Send
for price list.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset,
Boston.
Pecky Cypress.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

John C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION—Con.
S. Jacobs & Sons, Brooklyn, N. Y.

Hitchings & Co., New York City.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit,
Mich.
For page see List of Advertisers.

The Kervan Co., New York.

For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

Palisades Nurseries, Inc., Sparkill, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co.,
Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

INSECTICIDES

Hammond's Paint & Slug Shot Works,
Beacon, N. Y.
Hammond's Thrip Juice No. 2.
For page see List of Advertisers.

INSECTICIDES—Continued

Aphine Manufacturing Co., Madison, N. J.
Aphine.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

IRIS

John Lewis Childs, Flowerfield, N. Y.
German Iris.
For page see List of Advertisers.

Albert Victor Pallida, best cutting va-
riety, \$1.00 per 10, \$8.00 per 100, \$50.00 per
1000. HENRY C. ECKERT, Belleville, Ill.

LILY BULBS

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Lilium Harrisii Bulbs.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City
Hohmann's Famous Lily of the Valley Pips
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

LOPEZIAS

Lopezia racemosa, a very neat Xmas plant
covered with thousands of red flowers from
November until May. Out of 2-in. 3c., 4-in.
very bushy, 7c.

EMIL BAUDISCH,

753 Hamilton Ave., North Bergen, N. J.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.,
Hatboro, Pa.
For page see List of Advertisers.

NIKOTEEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

R. & J. Farquhar & Co., Boston, Mass.
Trees.
For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

NURSERY STOCK—Continued

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

NUT GROWING

The Nut Grower, Waycross, Ga.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Julus Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Paul de Nave, Fall River, Mass.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

Get the rare ones, true stock, Le Cygne,
Solange, Tourangelle, Mme. Jules Dessert,
Mons. Martin Cahuzac, La France, Rosa
Bonheur, Mignon, Therese, Germain Bigot,
Primevere, La Fayette, Eugene Verdier.
Send for list. D. W. C. RUFF, Buena
Vista Gardens, St. Paul, Minn.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special"
For page see List of Advertisers.

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

POINSETTIAS

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

ROSES—Continued

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY.
WEST GROVE, PA.

ROSE STAKES

The Carnation Support Co.,
Connersville, Ind.
For page see List of Advertisers.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Gigantic Cyclamen.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Micbell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
Mignonette.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Lochner & Co., New York City.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. B. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Mignonette, Improved Eclipse.
For page see List of Advertisers.

Roman J. Irwin, New York City.
New Crop Florists' Seeds.
For page see List of Advertisers.
Fottler, Flske, Rawson Co., Boston, Mass.
Seeds for the Florist
For page see List of Advertisers.

SEED GROWERS

Kelway & Son, Langport, England.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SWEET PEA SEED

Arthur T. Boddington Co., New York City.
Winter Flowering Spencer Sweet Peas.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
For page see List of Advertisers.

Stump & Walter Co., New York City.
Early Flowering Sweet Peas.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.
The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

XMAS PEPPERS

A. L. Miller, Jamaica, N. Y.
For page see List of Advertisers.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 3
Winthrop Sq.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 568-570 Washing-
ton St.
For page see List of Advertisers.

WHOLESALE FLORISTS
Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Rudling, 184 North Wabash Ave
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 264-266
Randolph St.
For page see List of Advertisers.

New York

H. K. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
For page see List of Advertisers.

Hentz & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.

Charles Mithang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. F. Allen, 118 West 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Traendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
For page see List of Advertisers.

Badgley & Bishop, Inc., 31 West 28th St.
For page see List of Advertisers.

Woodrow & Marketon, 37 and 39 W. 28th St.
For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 53 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Gutman & Reynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Guntner Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55 57 W. 28th St.
For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Conn, 115 West 28th St.
For page see List of Advertisers.

George W. Crunbuck Co., 57 West 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Nissen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619 21 Rainton St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 21 Stone St.
For page see List of Advertisers.

WHOLESALE FLORISTS
Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.

New Offers In This Issue

**CYCLAMEN SEED—ORCHIDS—ACA-
CIAS—NURSERY STOCK.**

Stuart Low Co., Enfield, Eng.
For page see List of Advertisers.

**EXTRA SELECTED DUTCH-GROWN
BULBS FOR FALL PLANTING.**

Hogewoning & Sons, New York City, and
Rynsburg, Holland.

**HORTICULTURAL SUNDRIES
FROM ENGLAND.**

G. H. Richards,
234 Borough, London, S. E., England.
For page see List of Advertisers.

PRICE LIST.

Advance Co., Richmond, Ind.
For page see List of Advertisers.

PRIMULA MALACOIDES ROSEA.

Fred H. Lemon & Co., Richmond, Ind.
For page see List of Advertisers.

RAINBOW FREESIAS.

August Rolker & Sons, New York City.
For page see List of Advertisers.

**ROMAN HYACINTHS—PAPER
WHITE NARCISSUS.**

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

**TRUCK FARM AND GREENHOUSES
FOR SALE.**

Horace S. Crowell, Boston, Mass.
For page see List of Advertisers.

**WHYS AND WHEREFORES OF
FALL SPRAYING.**

B. G. Pratt Co., New York City.
For page see List of Advertisers.

**TREES, SHRUBS, VINES and
HERBACEOUS PERENNIALS**

By JOHN KIRKEGAARD

Formerly Assistant to Director of the Royal
Botanical Gardens, Copenhagen, Denmark.
Latterly Twenty Years in American Fore-
stry and Botanical Work.

Assisted by DR. H. T. FERNALD,
Professor of Entomology Massachusetts
Agricultural College and Entomologist,
Massachusetts Agricultural Experiment
Station.

and PROF. E. A. WHITE,

Professor of Floriculture, New York State
College of Agriculture at Cornell Univer-
sity.

A Great Book A Beautiful Book
A Comprehensive Book
A Practical Book By Practical Men
There Is No Other Book Like It

410 Pages. Planting Plans. Tabular De-
scription and Classification of Species. 59
Full-Page Illustrations in Tone. Authorita-
tive Articles on Many Subjects.

New Edition

BEAUTIFULLY BOUND IN CLOTH

Price only \$2.50 net. Mailing

Price, \$2.71. Money-Back

Guarantee

Order it from HORTICULTURE

147 Summer St., Boston

WANTS, FOR SALE, ETC.

Advertisements in this column
one cent a word. Initials count
as words. Cash with order. All
correspondence addressed "Care
HORTICULTURE" should be sent
to 147 Summer St., Boston.

HELP WANTED

WANTED: Clerk in Florist's store in
suburb of Boston. Must have had experi-
ence in selling, designing and decorating.
References required. Reply to "P. F.,"
care of HORTICULTURE.

FOREMAN WANTED to take entire
charge of greenhouse establishment near
Boston, 12,000 feet of glass; grows variety
of stock. Good wages. Married man
with small family. "A. B. C. Co.," Horti-
culture.

SITUATIONS WANTED

Gardener with first-class references, 30
years old, married, no children. Experi-
ence in and outdoors on well-known private
places. Address "R. S.," care HORTICUL-
TURE, Boston.

FOR SALE
**TRUCK FARM and
GREENHOUSES**

— For Sale —

10 acre Farm, 4 greenhouses,
2, 100x25 ft. each, 2, 75x16 ft.
each; 7 room Colonial house
with hot and cold water, bath
and furnace; barn and poultry
house; tools, wagons, etc. 15
miles north of Boston. Will be
sold at a sacrifice if a buyer can
be found at once.

Horace S. Crowell, 60 State St.,
BOSTON, MASS.

TO RENT, LEASE OR FOR SALE—Six
greenhouses and one acre land. For par-
ticulars write FREDERICK S. FOLL-
WELL, 24 Charles St., Pittsfield, Mass.

THE NUT-GROWER

The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

In writing to Advertisers kindly mention Horticulture

INSECT PROBLEMS OF THE FLORIST AS SEEN BY AN ENTOMOLOGIST.

By THOMAS J. H. Entomologist for the Society of American Florists and Ornamental Horticulturists.

When invited by your worthy Secretary to address you, it occurred to the writer that the Entomologist's view of your insect problems might bring something suggestive and perhaps useful, and his invitation was accepted at once. It should be understood at the outset that the writer is and has for many years been a professional entomologist and that his view will necessarily differ from that of many florists.

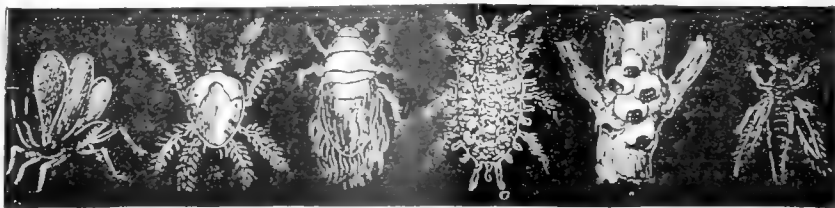
The insect pests, which the florist must combat successfully or make a failure of his business, depend very largely on the kind of crops which he grows and to a minor extent upon the locality in which he works. The insects which trouble the rose grower in a period of five or ten years are pretty much the same wherever his plant may be located, and the longer he grows the crop continuously the larger and more complete will his list of rose parasites become. This is true because the principal enemies of the rose forms a more or less well defined group and the practice of importing plants from other growers provides for the distribution of the parasites.

Perhaps the species that come into the roses directly from the local environment will exhibit the greatest irregularity in type and number because their attempts to enter are continuous and the conditions must be especially favorable to permit them to persist at all. The florist is in a class quite by himself in the ability to sterilize his soil, and to practice clean culture and rotation of crops. His extremely intensive system of cultivation justifies a procedure in these matters that would be prohibitive for the farmer, fruit grower or even the trucker. Furthermore, the

Hammond's Thrip Juice No. 2

REGISTERED

A Contact Insecticide, Useful and Reliable, Used for 30 Years in Greenhouses, and on Plants, Grape Vines, Trees and Shrubs



Some common Sucking Insects, magnified.

HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.

florist who grows under glass has the climate under his control.

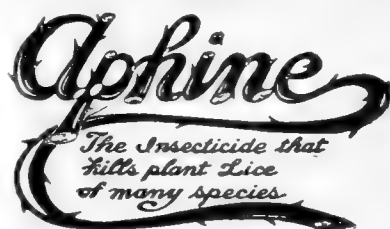
With the climate and the soil at his beck and call it would seem that the plant parasite problems of the florist should be easy of solution. As a matter of fact, the crops of the florist pay their toll to the insect pests to almost if not quite as great an extent as do those of the farmer, fruit grower or trucker.

It seems to the writer that there are two reasons for this condition—one that the plants are grown under forcing conditions and do not therefore have the strength and resistance of those grown under more natural circumstances, and second, that florists acting much like other growers of plants do not take advantage of their opportunities to rid their crops of plant parasites.

It seems reasonable to consider cleaning the soil as an important step toward getting rid of injurious plants. Under field conditions this can best be brought about through good drainage, clean culture and rotation of crops. Under glass house conditions this can best be accomplished by sterilization with steam or carbon bisulphide. Cleaning the soil does not mean that its liveliness shall be destroyed, but rather that its life and response shall be improved. Indeed, where the most severe treatments are used desirable bacteria that may be killed in the process can be largely replaced.

It is reasonable to consider the practice of absolute cleanliness about the field and glass house as another important step in the control of plant parasites. Under field conditions this state of things is incidental to cleaning the soil, but under glass it is not necessarily so. As often as the crop is removed the house should be given a complete cleaning and sterilization.

With a clean soil in a clean environment clean plants are needed to produce a clean crop. In obtaining plants free from parasites, the florist finds his chief difficulty and there appears to be no very good way of getting around it. Perhaps the best method is that of carefully examining all incoming plants and rejecting or treating all that exhibit signs of such a character that the plants live for a period of years, the placing of the recently arrived plants, which seem healthy, in an entirely separate part of the glass house system where they may remain for a time sufficient for the parasitism to develop, followed by



The Recognized Standard Insecticide. A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporising.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SOALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.

IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON

Whys and Wherefores of Fall Spraying

is the title of a little booklet, giving seven reasons, official and non-official, why it is the best time to spray. This booklet will be sent out by the B. G. Pratt Co., 50 Church St., New York, manufacturers of the well-known "SCALECIDE" at a very early date. If you are not on their mailing list, send them a postal today giving the number of your trees and your dealer's name and you will receive a copy free. Address Dept. 12



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago



NIKOTEEN

For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer For It.

NIKOTINE MFG. CO.
ST. LOUIS

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

a ruthless weeding out of the sickly, should prove a good practice.

After the crop has started, the first step in its protection from insects is to keep it healthily growing, for a vigorous plant resists attack more successfully than one the nutrition of which is abnormal. The second step is to keep the sharpest possible lookout for trouble and treat it as soon as it appears.

It is in the treatment of the plant after the insect has appeared that florists' practice appears to have reached its most bewildering diversity. Measures advocated by one grower as a specific for a given species are completely discounted by another and an opposite type of remedy substituted for them. This difference of opinion is partly due to the fact that florists are able to and do produce their wares under so widely different conditions, that in some instances what works for one will fail for another, and partly due to a failure to comprehend the general principles which underlie proper practice. The first is, of course, an entire legitimate cause for difference but the latter is inexcusable.

The treatment which shall be administered to plants infested with parasites depends upon whether the injury has reached a stage where treatment other than prompt destruction is worth while, what the plant itself will stand without damage to growth and appearance, and the nature of the parasite. Injury beyond a point where the plant may readily recover or of such a character (say borers in the main stem of herbaceous plants) that treatment is impracticable must be followed by prompt destruction of the plant and the parasite infesting it.

If the injury is one from which the plant may readily recover, the question of treatment then becomes one of nature, time and methods of applying. The nature depends on the parasite and upon the plant.

If the parasite is an animal, the question whether it consumes foliage or sap must first be determined. If the former, arsenicals should be used if the plant will stand the necessary dosage without injury to its structures or to its appearance. If the latter, nicotine or oil should be employed if the plant will stand the necessary treatment without serious injury to structure or to appearance. In the former case it is quite sufficient to coat the foliage which is being consumed while in the latter the insect itself must be thoroughly drenched. This procedure will answer for the bulk of the florists' insect pests.

There are, however, certain species to which these general rules will not apply and each of them may be considered on its merits. For instance many scale insects do not yield to contact sprays of strength which will

DREER'S "Riverton Special" Plant Tub

No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.00	\$17.50	\$145.00
20	18 in.	1.45	15.50	130.00
30	16 in.	1.10	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

leave the plants uninjured and hand removal becomes necessary. Many of the scales infesting palms are illustrations of this sort. Some chewing insects attack plants of such a nature that arsenical staining is inadmissible and contact insecticides must be used, as is the case with the Florida fern caterpillar.

There are crops, such as tomatoes under glass, the insect pests of which yield most easily to fumigation which will destroy a chewing insect as readily as a sucking one.

For the purpose of bringing these methods together and giving them some sort of organization the writer has induced Mr. Harry B. Weiss, of this department to prepare a bulletin on greenhouse insects. Especial attention has been given to this phase of the florists business because it has seemed to us that knowledge of that part of the field has been in more chaotic condition than any other. It is purposed to distribute this bulletin to the members of this association who express a desire to consult it.

No entomologist has made the insect pests of the florist's crop a subject of sufficiently extended study and research, and no really comprehensive and helpful scheme of procedure can be suggested until something of the sort has been done.

A live research committee of this organization might set such a piece of work going by cooperating with persons already in experimental work who are interested along this line, and thus initiate a movement that would prove a large factor in promoting American floriculture.

NEWS NOTES.

Liberty, Ind.—Edward Culley has sold his greenhouses to O. F. Coryell & Co.

Aurora, Ill.—The W. B. Davis Co., vegetable growers, has increased its capital stock from \$43,500 to \$134,000.

Augusta, Me.—A fierce tempest of wind, rain, hail and lightning struck this city on Wednesday afternoon, August 23, and did much damage to fruit and ornamental trees, gardens and greenhouses. The greenhouses of Frank Robbins, the Weeks estate, the Cross estate and Avenue Farm all had considerable glass broken.

Obituary**Henry A. Salzer.**

Henry A. Salzer, president of the John A. Salzer Seed Co., of LaCrosse, Wis., was crushed to death, August 22, on a narrow road in the village of Dresbach, Minn., when his machine, which he was driving, turned turtle. Mr. Salzer was 61 years of age.

Mrs. D. Carmichael.

Mrs. Carmichael, wife of the well known seedsman, Daniel Carmichael, connected for many years with the McCulloughs of Cincinnati, died on Aug. 13th from nervous breakdown after a brief illness. She had had these spells before in previous years but by careful nursing the family had been able to carry her through. She was a native of Glasgow, Scotland, and came to this country with her husband in 1885.

Charles E. Grunewald.

After making a will in which he left all of his property to his employees, Charles E. Grunewald, a florist, ended his life by shooting himself in the left breast last Saturday afternoon in the room where he lived in the rear of his store, No. 924 Madison avenue.

He was fifty-seven years old, unmarried, and came here from Germany forty-five years ago. Andrew Eckrich, who had been employed by Grunewald for twenty-two years, said Grunewald had been in poor health. Four bank books, the lease for the store and other papers were found in an envelope with the will.

STANDARD FLOWER**POTS**

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

23th & M Sts., Washington, D. C.

**GREENHOUSES BUILDING OR CON-
TEMPLATED.**

Gardenville, N. Y.—Galley Bros., three houses.

Guilford, Ct.—B. A. Latham, sweet pea house, 16x56.

St. John, Kan.—Mrs. H. K. Maxwell, Moninger house, 21x50.

St. Louis, Mo.—Henry Young, Waterman avenue, fern house.

Athol, Mass.—W. M. Boynton, Wallingford avenue, one house.

Louisville, Ky.—E. G. Reimers & Son, one house, completed.

Woonsocket, R. I.—Joseph L. Savard, 91 Merida avenue, one house.

San Francisco, Cal.—Peninsula Nursery Co., additions and alterations.

Stoneham, Mass.—Arnold, Fisher & Co., Wyman street, range of houses.

Thief River Falls, Minn.—Martin Bothum and Wm. J. Olson, two houses.

Coshocton, O.—Mrs. E. J. Clary, two houses, each 22x150, Lord & Burnham, material.

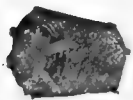
Portland, Ore.—Gustave J. Burkhardt, 112 North Twenty-third street, one house.

Minneapolis, Minn.—Chicago Avenue Floral Co., Vasatka Bros., proprietors, one house.

Providence, R. I.—Richard Hogan, house, 28x100. Park Greenhouses, Broad street, additions and alterations.

Cazenovia, N. Y.—Cazenovia Greenhouses, Chenango St., two houses, each 32x150, and propagating house, completed.

Kansas City, Mo.—Adolph D. Mohr, Seventy-sixth street and Broadway, three houses, each 15x100. Joseph Austin, one house. Forest Hill Cemetery, range of houses.

**NON-KINK WOVEN HOSE**

In any length (one piece) with couplings, 14c. per foot. Unequaled at the price. Remnants, shorter than 50 feet, 10c. per foot, with couplings.

HOSE VALVE—70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

PATENTS**Trademarks
and Copyrights**

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

**Make the Garden More Beautiful**

They have a special style of construction which, while very strong does away with heavy shadow casting supports. This makes every King especially sunny and productive and enables you to give your garden an earlier start.

Then this special construction, noted for its graceful sweeping lines, can be adapted to suit any style architecture or landscape plan. The King is in itself the beauty spot of the garden.

Write for Bulletin No. 47—Send us a picture of your home. Tell us your own ideas, and let our experts prepare a sketch and plan showing just how a King can add dignity and grace to your garden—No obligation on your part of course.

KING CONSTRUCTION COMPANY

28 KINGS ROAD, NORTH TONAWANDA, N. Y.

Boston Office: 113 State St.

Philadelphia Office: 15th and Market Sta.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

**KROESCHELL
BOILER**

SEND FOR CATALOGUE



KROESCHELL BROS. CO.
406 W. Erie St. Chicago, Ill.

**Evans 20th Century Arm**

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

THE FLORISTS' HAIL ASSOCIATION

Is a mutual organization, insuring greenhouse glass against hail. Both commercial and private establishments are accepted. For particulars, address

John G. Esler, Sec., Saddle River, N. J.
Inquire Now.

GLASS**GREENHOUSE MATERIAL
HOT-BED SASHES**

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

**Dreer's Peerless
Glazing Points
For Greenhouses**

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

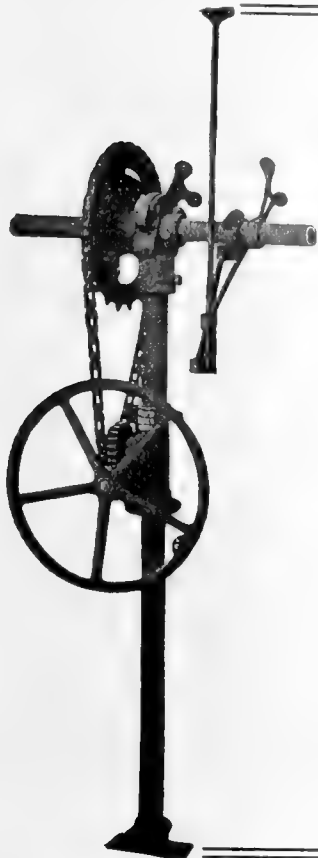
1000, 75c. postpaid.
Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No 2



When writing to advertisers kindly
mention HORTICULTURE.



PRICES

Net F. O. B. Richmond

Big ADVANCE Ventilating Machine. Complete with pipe post	\$12.00 each
Less pipe post.....	11.00 each
Truss Type Arms. Complete with bolts .....	.30 each
Hangars. Complete with screws .....	.10 each
Shaftings Pipe, 1 1/4", complete patent pipe couplings.....	.07 foot
Patent Pipe Couplings for 1 1/4" pipe, separate .....	.15 each

All Prices absolutely the same to each and every customer.

We can make immediate deliveries. For further information and prices, get our catalog, sent FREE on request.

Remember our complete line of GREENHOUSE FITTINGS. We solicit your business and guarantee to handle it for you in a satisfactory manner.

ADVANCE CO.

Richmond, Ind.

FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, - - - - - CHICAGO, ILL.

CYPRESS GREENHOUSE STOCK

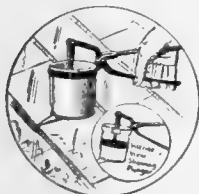
PECKY CYPRESS BENCH STOCK

HOT BED SASH

Ask for Circular D and Prices

THE A. T. STEARNS LUMBER COMPANY

NEPONSET, BOSTON



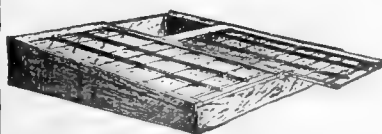
Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

Seal-tight liquid putty at \$1.25 per gallon.
METROPOLITAN MATERIAL CO.
1392-1414 Metropolitan Ave., Brooklyn, N. Y.

When writing to advertisers kindly mention HORTICULTURE.



HOTBED SASH at 75c. each
Made of best grade Gulf cypress.

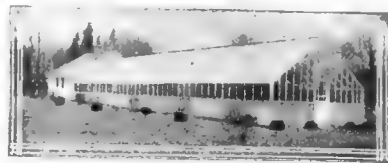
Glazed Hotbed Sash from \$1.65 up.
Double Light Sash up to \$4.00.

We carry a large stock of all sizes.
Write us for estimate.

S. JACOBS & SONS
1359-1385 Flushing Avenue BROOKLYN, N. Y.

METROPOLITAN GREENHOUSES

Thorough In Every Particular



The three things of utmost importance after signing the contract to build a greenhouse, are, Quality, Speed and Economy. This is a basic truth, and absolutely essential to the success of any greenhouse building operation. Our organization is letter-perfect down to the minutest detail.

Along with many other prominent Metropolitan Greenhouse owners, Mr. Martin Metzner, for whom we built the above Greenhouse on his estate at Lake Ronkonkoma, Long Island, will verify our claim that we are capably equipped to build satisfactorily, rapidly and economically.

PUT YOUR GREENHOUSE PROBLEMS UP TO US

We go anywhere in the U. S. to submit plans and prices.

METROPOLITAN MATERIAL CO.

Patented Greenhouses.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.



EVERYTHING FOR THE GREENHOUSE

John C. Moninger Company

CHICAGO NEW YORK
922 Blackhawk St. 812 Marbridge Bldg.
CINCINNATI, 2314 Union Central Bldg.

MASTICA



For Greenhouse Glazing
USE IT NOW

F. O. PIERCE CO.
12W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

Jack Frost Is Just Around the Corner

First thing you know, he will jog your memory about those sash you ought to have bought.

We are jogging it gently now.

He won't care how roughly he does it.

His jogs, cost you money.

Our jogs, save you money.

Here then is our gentle jog in the form of a



Special Sash Offer

IT'S your chance to get right in on the ground floor and buy the right sash at decidedly the right price.

The remarkable thing about this Offer, is, that in the face of the great advances in price of **all the materials** and labor that goes into the sash, still we are not raising the price a penny.

You can buy 25, 50 or 100 sash this year at exactly the same Special Offer price you did last year.

But the Offer holds good for **30 days only**. After that, the chances are a sharp advance in price will be made.

OFFER PRICE

Unpainted and Unglazed

No. 1. 25 Sash for \$26.50 and one Sash free.

No. 2. 50 Sash for \$52 and two Sash free.

No. 3. 100 Sash for \$101 and four Sash free.

Painted One Coat—Unglazed

No. 4. 25 Sash for \$29 and one Sash free.

No. 5. 50 Sash for \$55.50 and two Sash free.

No. 6. 100 Sash for \$110 and four Sash free.

For lots of over 100 a flat price of 99 cents each,
This price does not include any sash free.

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

SALES OFFICES:

NEW YORK
2nd St. Bldg.

CHICAGO
Rookery Bldg.

TORONTO
Royal Bank Bldg.

BOSTON
Tremont Bldg.

ROCHESTER
Granite Bldg.

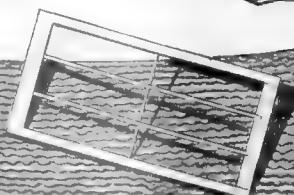
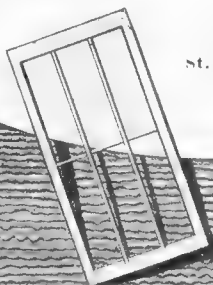
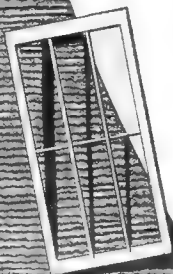
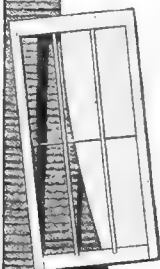
PHILADELPHIA
Widener Bldg.

CLEVELAND
Sweetland Bldg.

MONTREAL
Transportation Bldg.

FACTORIES

Irvington, N. Y.
Des Plaines, Ill.
St. Catharines, Canada.



Vol. XXIV
No. II
SEPT. 9
1916

HORTICULTURE



A Hardy Fern Garden

Goodwin Estate, gard. J. F. Huss, Hartford, Conn.

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription, \$1.00

Attention, Mr. Florist!!!**Order Now!!!**

HOGEWONING'S

Extra Selected Dutch-grown Bulbs for Fall Planting

ALL BULBS GUARANTEED TRUE TO NAME AND DESCRIPTION

SINGLE EARLY TULIP BULBS

	100	1000
Artus. Dark red.....	\$0.60	\$5.50
Couleur Cardinal. Purplish red	1.20	10.00
Crimson King. Scarlet.....	.70	6.00
La Belle Alliance. Scarlet...	.90	8.00
Vermillion Brilliant. Scarlet..	1.20	10.00
La Reine. White, pink shaded	.60	5.00
L'Immaculee. Pure white....	.60	5.00
Cottage Maid. Striped pink...	.60	5.00
Rose Grisdelin. Pink.....	.60	5.00
Pink Beauty. Extra fine.....	1.80	16.00
Chrysolora. Pure yellow....	.70	6.00
Mon Tresor. Pure yellow; early .....	.90	8.00
Yellow Prince. Yellow, shaded red .....	.70	6.00
Keizerskroon. Brilliant red.	1.40	12.00
Prince of Austria. Deep orange	.90	8.00
Proserpine. Cherry rose.....	1.40	12.00
Mixed. All colors; extra fine..	.60	5.00
Separate Colors. Extra fine...	.65	5.50

DOUBLE EARLY TULIP BULBS

	100	1000
Imperator Rubrorum. Red...	\$1.40	\$12.00
Murillo. Pink; very fine....	.80	7.00
Couronne d'Or. Deep yellow; extra	1.40	12.00
Titian. Red, edged yellow...	1.00	9.00

DARWIN TULIP BULBS

	100	1000
Allard Pierson. Dark brown..	\$1.20	\$10.00
Baronne de la Tonnaye. Rose.	2.00	18.00
Clara Butt. Bright rose; extra	1.10	10.00
Gretchen. Soft salmon rose.	.90	8.00
Kate Greenaway. White, with lilac	1.20	10.00
Loveliness. Satiny rose.....	1.40	12.00
Pride of Haarlem. Cherry red.	1.40	12.00
Orion. Bright red, large flower	1.40	12.00

HYACINTH BULBS—First Size

For Forcing and All Other Purposes

	100	1000
Gertrude. Rose pink.....	\$3.80	\$34.00
Gigantea. Light pink.....	3.80	34.00
Robert Steiger. Deep crimson	3.80	34.00
Grandeur a Merveille. Blush..	3.80	34.00

	100	1000
La Grandesse. Pure white....	\$3.80	\$34.00
L'Innocence. Pure white....	3.80	34.00
Grand Maitre. Porcelain blue.	3.80	34.00
King of the Blues. Dark blue.	3.80	34.00
Queen of the Blues. Light blue	3.80	34.00
King of the Yellows. Yellow.	3.80	34.00

HYACINTH BULBS—Second Size

	100	1000
In above named 10 varieties.	\$2.50	\$22.00

MINIATURE HYACINTH BULBS

	100	1000
In 6 different colors.....	\$1.40	\$12.00

NARCISSUS BULBS

	100	1000
Emperor. Mother bulbs....	\$1.40	\$12.00
Emperor. Single nose.....	.80	7.00
Golden Spur. Mother bulbs...	1.40	12.00
Golden Spur. Single nose....	.80	7.00
Bicolor Victoria. Mother bulbs	1.40	12.00
Bicolor Victoria. Single nose..	.80	7.00
Von Sion. Mother bulbs.....	1.40	12.00
Von Sion. Single nose.....	.80	7.00

NARCISSUS PAPER WHITE GRANDIFLORA, 13 cm. and up, \$10.00 per 1000.
(250 bulbs of any one variety charged at the 1000 rate.)

Prices are F. O. B. New York, Freight, Duty, Packing and all other expenses paid.

Varieties not mentioned above, quoted on application. Special prices for large quantities of any one variety.
3 per cent. may be deducted for cash with order.

HOGEWONING & SONS, Bulb Growers

Branch Office, 32 Broadway, New York

RYNSBURG, HOLLAND

WHY NOT STRIKE

the right spot for Plants, Bulbs, Etc.

JOHNSON & MILLANG, Inc.

Coogan Building,

55-57 West 26th Street, NEW YORK

Under Cut Flower Exchange

AUCTIONEERS

Sales at auction every Tuesday and Friday at 9.00 A. M. Buy your
Plants and Bulbs while purchasing Cut Flowers.

GRAND OPENING SALE TUESDAY, SEPTEMBER 12th

Start Promptly at 9.00 A. M.

10,000 square feet devoted to our auction business

Rainbow Freesias

In pleasant harmonizing mixture of **YELLOW, ORANGE, LAVENDER and PINK** shades. For Florists' Storework these are the best and the latest addition. For closer description see August 19th HORTICULTURE, Page 258. Regular price \$5 per 100; \$40 per 1000. Send us **TEN DOLLARS** for a trial lot of 250 by mail.

FREESIA PURITY, true stock, first size at \$10 per 1000, so long as limited stock lasts.

AUGUST RÖLKER & SONS, 51 BARCLAY STREET, New York
or P. O. BOX 752

FREESIA PURITY BULBS

Florists' Forcing Size, 1/2 to 3/4 inch

\$7.50 per 1000 High Grade Bulbs**ANGLIN & WALSH CO.**

Williamsbridge, N. Y.

In Writing Advertisers**Kindly Mention****HORTICULTURE**

GERANIUMS

Alphonse Ricard, Beaute, Poltevine, S. A. Nutt, Gen'l Grant, Mad Buchner, Mad. Reconniers, Jean Vlaud, Jean Oberle, Abbie Schaffer, Mad. Landry, La Favorite, and other good kinds in 3-in. stock, at \$3.00 per 100, \$25.00 per 1000, 2-in. at \$2.00 per 100, \$18.50 per 1000. We have a large stock ready for immediate shipment and orders booked for future shipment.

BOSTON FERNS, 4-in., \$15.00 per 100; 7-in., \$6.00 per doz.; 8-in., \$1.00 each, \$9.00 per doz. Large plants in 11 and 13 inch pots from \$2.50 to \$5.00 each.

	2-in. 100	2-in. 1000	3-in. 100	3-in. 1000		2-in. 100	2-in. 1000	3-in. 100	3-in. 1000
ACALPHIA	\$2.00	\$18.50	\$3.00	\$25.00	HARDY ENGLISH IVY	\$2.00	\$18.50	\$3.00	\$25.00
ALTERNANTHERAS	2.00	18.50			LEMON VERBENAS	2.00	18.50	3.00	25.00
AGERATUM	2.00	18.50			LANTANAS	2.00	18.50		
ASPARAGUS SPRENGERI, extra					MOONVINES, White and Blue	2.00	18.50	3.00	25.00
strong			5.00		PARLOR IVY, S. Scandens	2.00	18.50	3.00	25.00
BEGONIAS, Vernon	2.00	18.50			POMPON CHRYSANTHEMUMS	2.00	18.50	3.00	25.00
COLEUS	2.00	18.50	3.00	25.00	SALVIA, Bonfire and Zurich	2.00	18.50	3.00	25.00
CUPHEA, Platycentra	2.00	18.50	3.00	25.00	SWAINSONA, White	2.00	18.50	3.00	25.00

CELERY. White Plume, \$1.00 per 1000; 10,000 and over 85 cents per 1000.

CASH WITH ORDER.

R. VINCENT, Jr., & SONS CO.,

WHITE MARSH,
MD.

LILY OF THE VALLEY PIPS

Danish and German Stock

Booking Orders now for
1916 Crop

LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

CHAS. SCHWAKE & CO., Inc.

Valley

GERMAN, SWEDISH
AND DUTCH PIPS

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....367	Coan, J. J.....359	Gunther Bros....359	Kramer, F. H....353	Palmer, W. J. & Son.....353	Skildelsky, S. S. & Co.....351
Albany Cut Flower Ex.....358	Cooke, Geo. H....352	Guttman & Ray- nor.....358	Kroeschell Bros..367	Park Floral Co..352	Smith, Elmer D. & Co.....340
Allen, J. K.....359	Cowee, W. J.....356	Hail Association.366	Kuebler, W. H....358	Parshelsky Bros.367	Smith, P. J.....358
American Bulb Co.....351	Craig, Robt. Co..340	Hammond Paint & Slug Shot Works.....365	Lager & Hurrell.340	Penn the Florist.353	Smith & Fetters.353
Anderson, S. A..353	Crawback, Geo. W. Co.....350	Hart, Geo. B....358	Lange, H. F. A..353	Pennock-Meehan Co.....357	Smith, W. & T. Nursery Co....341
Anglin & Walsh.338	Dards.....352	Henderson, A. & Co.....351	Lemon, Fred H. Co.....341	Pierce Co., F. O..367	Smyth, Wm. J...353
Aphine Mfg. Co..365	Davenport, A. M.341	Hentz & Nash...358	Leonard Seed Co.351	Pierson, A. N....340	Stumpp, G. E. M.352
Badgley & Bishop, Inc.....358	Dreer, H. A.....347-366-367	Hess & Swoboda.353	Loechner & Co..339	Pierson, F. R....340	Stumpp & Walter Co.....348
Barrows & Son..347	Dorner, F. & Sons Co.....340	Hews, A. H. & Co.....366	McHutchison & Co.....340	Poehmann Bros. Co.....356	Thorburn, J. M. & Co.....351
Bayersdorfer, H. & Co.....355	Dunlop, John H..353	Hill, E. G. Co....356	McManus, Jas...358	Randall's Flower Shop.....352	Totty, Chas. H..340
Bay State Nur- series.....341	Dysart, R.....355	Hill, D. Nursery Co.....341	McConnell, Alex..352	Reed & Keller...356	Traendly & Schenck.....358
Boblink & At- kins.....341	Eastern Chemical Co.....366	Hitchings & Co..368	MacNiff Horticul- tural Co.....341	Riedel & Meyer.358	United Cut Flower Co.....350
Boddington, A. T.349	Edwards Folding Box Co.....356	Hogewoning & Sons.....338	Marshall, W. E. & Co.....351	Reid, Edw.....356	Valentine, J. A..367
Bolgiano & Son..351	Elliott Auction Co.....340	Holland Nurser- ies.....341	Metropolitan Ma- terial Co.....366-367	Reid, Edw.....356	Vincent, R., Jr., & Sons Co....339
Breck, J. & Sons.351	Ernest, W. H....366	Holm & Olson...352	Michell, H. F. Co.....350	Reuters.....353	Wants, For Sale.363
Breitmeyer's, J. Sons.....352	Esler, J. G.....366	Irwin, R. J.....351	Michigan Cut Flower Ex....356	Robinson, H. M. & Co.....359	Ward, R. M. & Co.....342
Budlong, J. A...356	Evans, J. A. Co..367	Johnson & Mil- lang.....338	Millang, Chas...358	Robinson, H. M. Co.....358	Weber, F. C....353
Bunyard, A. T...352	Eyres.....353	Jacobs, S. & Sons.....367	Miller, A. L....347	Roehrs, J. Co...340	Weiss, Herman..350
Burnett Bros....350	Farquhar, R. & J. & Co.....351	Kasting, W. F. Co.....356	Moninger, J. C. Co.....367	Roland, Thomas.353	Welch.....356
Burpee, W. A. & Co.....351	Foley Mfg. Co..367	Keller, J. B. Sons.....352	Murray, Samuel..352	Rolker, A. & Sons.....338	Welch Bros. Co..356
Carnation Support Co.....341	Ford, W. P.....358	Kerr, the Florist.353	National Nur- serymen.....341	Rosery, The....352	Welch, Patrick..359
Carter's Tested Seeds, Inc.....350	Ford, M. C.....358	Kervan Co.....358	Nave, Paul de...340	Schling, Max....352	Wood Bros.....340
Childs, John Lewis.....340	Froment, H. E..358	King Construc- tion Co.....367	Nicotine Mfg. Co.....365	Schwake, Chas. Co.....339	Woodrow & Mar- ketos.....356
Clarke's D., Sons.352	Galvin, Thos. F..353	Knoble Bros....353	Niessen, Leo Co..356	Sharp, Partridge & Co.....367	Young, John & Co.....358
Clucas, R. W....347	Gasser Co., J. M.353		Nut Grower.....363	Sheridan, W. F..358	Young & Nugent.352
	Graham, Adam & Son.....353		Ouwkerk, P....341	Siebrecht, Geo. C.358	Zvolanek, Ant. C.351
	Grey, Thos. J. Co.....351		Pallsades Nur- series.....347	Siebrecht, W. R..358	
	Gude Bros. Co..352			Singers & Sig- gers.....367	

**FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 360, 361, 362, 363**



ELLIOTT AUCTION CO.

42 VESEY ST., NEW YORK

Will commence the Fall Sales

TUESDAY, SEPTEMBER 19th

and will offer on that day 50 cases of flowering bulbs, such as:

Narcissus

Bicolor Victoria, 1st size
Golden Spur, Double
Crown
Von Sion, Double Crown

Hyacinths

Single Blue Johann
Single Pink Gertrude
Single Blue Potgier
Single White B. v. Thuyt
Single White A. Christina

Tulips

Single Belle Alliance
Single Cramoise Brilliant
Single Princess Marianne
Single Rose Hawk
Single Rose Luisante

Single Thos. Moore
Single Rose Grisdelen
Single Chrysolora
Single Yellow Prince

ALSO THE FOLLOWING FOLIAGE STOCK:

25 FICUS Elastica
55 PANDANUS Veitchii
55 DRACÆNA Fragrans

25 KENTIAS FORST., 3-inch pots
25 KENTIAS FORST., 4-inch pots
25 KENTIAS FORST., 5-inch pots

25 BOSTON FERNS, 4-inch
25 BOSTON FERNS, 3-inch
25 DRACÆNA TERMINALIS

CATALOGUES ON
APPLICATION

WM. J. ELLIOTT, Auctioneer

LILY BULBS

Fall Shipment from Japan

Prices quoted F.O.B. New York, Chicago, Denver, San Francisco and London (Ont.)

Write for quotations stating quantity variety and size required.

McHUTCHISON & CO. The Importers
95 Chambers St., New York

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, - N. Y.

A. N. Pierson, Inc.

CROMWELL, CONN.

Bedding Plants and Roses

CARNATIONS

Field Grown

ENCHANTRESS SUPREME. EUREKA
WHITE WONDER. PINK DELIGHT.
\$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL,
MATCHLESS,
\$7.00 per 100; \$55.00 per 1000.

LADY NORTHCLIFF, PINK WINSOR,
WHITE WINSOR.
\$6.00 per 100; \$50.00 per 1000.

WOOD BROS., FISHKILL,
N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ELMER D. SMITH & CO. CHRYSANTHEMUMS

Ask for Catalogue

ADRIAN, - - - MICH.

CHARLES H. TOTTY

CHRYSANTHEMUMS
MADISON, N. J.

OUR EXHIBIT OF

GERMAN IRIS

Won FIRST PRIZE at the

*International Garden Club, Summer Show, Pelham Manor
June 1-4, 1916*

JOHN LEWIS CHILDS, INC.,
FLOWERFIELD L. I., N. Y.

ORCHIDS

CONSERVATORY PLANTS
BEGONIAS

Lorraine, Cincinnati and Mrs. Peterson
JULIUS ROEHRS CO.
Rutherford, N. J.

ORCHIDS

Just received a grand importation of
Lycaste Skinnerii. We also carry a choice
line of established plants at all times.
Write for prices now.

PAUL DE NAVE

ORCHID GROWER.

Tel. Connection. FALL RIVER, MASS.

ORCHIDS

We grow and sell nothing but ORCHIDS.
If you are in the market for this class of
plants we respectfully solicit your inquiries
and orders. Special lists on application.

LAGER & HURRELL, Summit, N. J.

PRIVATE ESTATE AUCTION SALE

of GREENHOUSE DECORATIVE PLANTS such as

PALMS, FERNS, ETC.

From the Estate of

MRS. T. A. SPERRY of CRANFORD, N. J.

ON TUESDAY, SEPTEMBER 12, AT NOON

Also, local consignments of **PALMS, FERNS, DRACAENAS, RUBBERS, Etc.**, and **DUTCH AND FRENCH GROWN BULBS**, to be offered in lots to suit the large and small buyer. Send for weekly catalogue.

THE MACNIFF HORTICULTURAL CO.

52 to 56 Vesey Street, New York

THE LARGEST HORTICULTURAL SALESROOMS IN THE WORLD

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
HATBORO, PA.

BOBBINK & ATKINS

Nurserymen, Florists
and Planters
RUTHERFORD, NEW JERSEY

Nursery Stock

Fruit and Ornamental Trees, Shrubs,
Small Fruits, Clematis, Evergreens
and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

Primula Malacoides Rosea

Florists who grow stock for the Retail Trade should obtain plants of this charming little Primrose during September and October for St. Valentine's Day and Easter

LATE SOWN MALACOIDES ROSEA FOR BEST RESULTS

CERTIFICATES WHEREVER SHOWN

2 1/4-inch pot plants \$5.00 per 100, \$40.00 per 1000

FRED H. LEMON & CO.

RICHMOND - - - - - INDIANA

FERNS IN FLATS

Eight Best Varieties—200 Clumps to a Flat
\$2.00 per flat; 10 or more flats, \$1.90 each
A. M. DAVENPORT, Watertown, Mass.

TREES

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties. Sturdy, choice stock that can be depended upon. Send for catalog and special trade prices.

The Bay State Nurseries

North Abington
Mass.

SHRUBS

This New England soil and climate produces fine sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS,
AZALEAS, CONIFERS, CLEMATIS,
H. P. ROSES, SHRUBS AND HER-
BACEOUS PLANTS.

P. OUWERKERK, 216 Jane St., Weobawken Heights
P. O. No. 1, Hoboken N. J.

In stock ROSE STAKES

EXTRA STIFF No. 9 GALV. WIRE
4 1/2 feet—\$13.05 per 1000

CARNATION SUPPORTS

\$18.00 per 1000 plants.

THE CARNATION SUPPORT CO., Connersville, Ind.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY.
Small, medium and large sizes supplied.
Price list now ready.

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers in
America.
BOX 418, DUNDEE, ILL.

ONE MILLION PAPER WHITES

First Size\$6.00 per 500 \$12.50 per case of 1250 bulbs
Extra Size 8.00 per 500 15.00 per case of 1000 bulbs

100,000 ROMAN HYACINTHS

First Size ..\$15.00 per 500 \$28.00 per 1000 \$54.00 per case of 2000 bulbs
Extra Size.. 20.00 per 500 38.00 per 1000 62.00 per case of 1700 bulbs

FRENCH TRUMPET MAJORS

First Size\$15.00 per 1000 \$28.00 per case of 2200 bulbs

GRAND SOLEIL D'OR

\$12.50 per 500 \$25.00 per case of 1100 bulbs

These French Bulbs are the Cream of the 1916 Crop

FORMOSUM

Immediate Delivery

7x9	\$7.00 per 100	\$17.00 per case of 270 bulbs
8x9	8.00 per 100	17.00 per case of 260 bulbs
8x10.....	9.00 per 100	17.00 per case of 220 bulbs
9x10.....	10.00 per 100	16.00 per case of 160 bulbs
9x11.....	11.00 per 100	16.00 per case of 150 bulbs
10x11.....	12.00 per 100	16.00 per case of 140 bulbs

These bulbs are extra fine Horseshoe Brand goods. Nothing better produced. Better have a case or so for early flowering.

GIGANTEUM

(Due September-October)

Size 7x9 can be delivered from any of the following cities:

SAVE FREIGHT

NEW YORK
CHICAGO
PITTSBURGH
GALVESTON
NASHVILLE

OMAHA
BOSTON
BUFFALO
TORONTO
VANCOUVER

PHILADELPHIA
CINCINNATI
GRAND RAPIDS
MINNEAPOLIS
SAN FRANCISCO

The price is \$15.00 per case of 300 Horseshoe Brand Giganteum 7x9 inches from any of these cities. Good Cold Storage Warehouses in each city above. Buy now—near home—and save money in freight. Lay in your Cold Storage supply for 1917. The best quality lily bulbs in the world.

COLD STORAGE GIGANTEUM

Limited Quantity

Size 7x9	\$10 per case of 100	\$25 per case of 300 bulbs
Size 9x10.....	15 per case of 100	25 per case of 200 bulbs

RALPH M. WARD & CO.

The Lily House

71-73 Murray St.

Branch in Rotterdam

NEW YORK

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—

Euphorbia jacquiniæflora

This is one of the most beautiful of our winter flowering plants. Its intense scarlet flowered, wreath-like shoots are unsurpassed. It is a free grower, and equally free in blooming; the flowers last well either on the plant or when cut and placed in water. It gives a succession of bloom from a second growth when the plants have been cut. We have arrived at the critical time in culture. Avoid wide fluctuations in night temperature; 60 to 65 degrees at night should be maintained, and in order to do this fire heat is necessary. No plants are more easily and speedily ruined by an excess of moisture at the roots than this plant. Careful attention is required as to ventilation, firing, etc., and watering carefully from now on is of great importance. It cannot be good policy to apply water which is near the freezing point. When the flowers become apparent at the axils of the leaves the plants will be benefited by manure water, which will not only assist the first bloom they make but enable them to push the second growth strong.

Lilium multiflorum

Every florist should include this very fine lily in his trade. While it is quite possible to pot these lilies considerably later and still have them for Easter, the earlier they are potted the better they will be. Do not stand lily pots under the benches. This is a convenient but often a reprehensible practice. A frame, shed, cellar or other frost proof place will be all right for some weeks yet. Do not let the sun shine on them. A soaking after potting should carry them until the bulbs are well rooted. Lilies do better kept on the dry side until the pots are full of roots and top growth nicely started. If kept wet, the roots will rot and the plants speedily show traces of the ever present "disease" which is often caused by wrong culture. Use any good soil and well rotted manure. One of manure and three of soil makes a good compost.

Mignonette

Now that the cool nights are with us mignonette will soon show some growth. Give them plenty of ventilation. Look the beds over often for the dry spots and water them. Give light fumigation every week. Keep all unnecessary side growths removed. See that the plants are well supported to keep the stems upright. Where the plants have been started early the bench in most cases will be filled with roots, so now is a good time to give them a mulch of equal parts of soil and well rotted cow manure about half an inch deep and follow

with another mulch in five or six weeks. On bright mornings they can be syringed.

Orchids

Cattleyas and Laelias above all enjoy plenty of fresh air. There are really but few days in the year when neither top nor bottom ventilators can be open. In the case of strong winds, enough will get between the laps of glass to satisfy them. Watering should be done fairly early in the morning, so that the moisture dropped on foliage and benches will dry up before night. Syringing overhead should be gradually discontinued. When done at all, let it be on the mornings of clear days. Do not play the hose directly on the plants but always use a fine misty spray. It is safer to underwater than overwater. A decreased water supply all around will be necessary now. The question of ventilation is not half considered. It is the rock on which many would-be orchid growers fail—too hot and stuffy conditions. Outside of the purely East Indian tropical kinds, all like air in abundance. See that some of the shading is removed from time to time, so the growth will not become too soft.

Phlox

When phloxes are grown commercially it is essential that the soil be spaded deep, or, still better, trenched. It pays to trench the ground well for this perennial and have plenty of well decomposed manure thoroughly incorporated with the soil. Any extra labor and fertilizer put into the preparation of the border will be repaid for some years afterward in results. From now on up to the end of October is the best time to make new borders or divide and replant old ones. Good varieties to plant are R. P. Struthers, salmon pink, Independence, Le Cygne, Albatre, Jeanne D'Arc, all pure white; Le Soleil, rose, Coquelicot, orange scarlet; General Chanzy, scarlet; Nettie Stuart, white shaded pink, White Swan, pure white, and Rosy Gem, clear rose, etc. Where old clumps are to be divided, it does not pay to cut them in too small pieces. Divide the clumps so each piece will be of good size. Early fall planting will re-establish the plants sufficiently to produce fairly good flowers the following summer.

Reminders

Watch the mignonette for green caterpillars. It is a good plan to dust them with Slug Shot and leave it on.

Where there is ground to spare plant some *Hydrangea arborescens sterilis* this fall. They are fine on account of their great freedom of flowering.

As the nights grow cooler house any poinsettias that have been standing outside, to prevent the loss of foliage.

Keep antirrhinums cool and well aired, so as to make them sturdy. Pinch out the tops of any showing flower.

HORTICULTURE

VOL. XXIV

SEPTEMBER 9, 1916

NO. 11

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 147 Summer Street, Boston, Mass.

Telephone, Oxford 292.
 WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—A Hardy Fern Garden.	
NOTES ON CULTURE OF FLORISTS' STOCK—	
Euphorbia jacquiniæflora—Lilium multiflorum—	
Mignonette—Orchids—Phlox—Reminders— <i>John J. M. Farrell</i>	343
ROSE GROWING UNDER GLASS—Depth of Soil—	
Shaking the Plants After Syringing—Drainage	
Under the Benches—Weeds— <i>Arthur C. Ruzicka</i>	345
CLUBS AND SOCIETIES—Coming Exhibitions—Flor-	
ists' Club of Philadelphia—Meetings Next Week—	
Club and Society Notes.....	346
DURING RECESS—Holyoke and Northampton Club..	346
SEED TRADE—One Week's Imports.....	349
The Pea Crop—Bean Estimate and Prices—Corn—	
California Crops—European Crops—Vine Seeds—The	
Ferry Entertainment	350
OF INTEREST TO RETAIL FLORISTS:	
New Flower Stores.....	352
Flowers by Telegraph.....	353
NEWS ITEMS FROM EVERYWHERE:	
Chicago, Washington, New York, Boston, Pittsburgh	354
St. Louis	355
OBITUARY—H. B. Denker—Mrs. Frederick Heeremans	355
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago, Cincinnati, New York, Phil-	
delphia	357
St. Louis, Washington.....	359
SOME IMPORTANT NEW OR LITTLE KNOWN	
TREES AND SHRUBS— <i>John Dunbar</i>	364
MISCELLANEOUS:	
Advancing of Prices—Why Not?— <i>P. M. Reed</i>	347
A Hardy Fern Garden.....	347
French Bulbs Destroyed.....	347
New Hybrid Water-Lilies.....	348
View in Gladiolus Show Room—Illustration.....	349
Visitors' Register.....	352
News Notes	352-355
New Dahlia Albert Manda—Illustration.....	355
New Corporations—Business Troubles.....	355
Catalogue Received	359
Gladiolus Pink Perfection—Illustration.....	359
Planting a Railroad Embankment—Illustration....	364
Patents Granted	365
Collection of Debts Barred by Bankruptcy Proceed-	
ings— <i>Elton J. Buckley</i>	366

Importers' trials

The long delays in the transportation of nursery stock, bulbs, etc., which importers have been experiencing are very exasperating and the resulting uncertainties make the lot of the horticultural importer one that is neither easy nor enviable. We have just learned of the arrival in New York this week of a lot of French bulbs shipped from Marseilles on July 12. The condition of the bulbs has not yet been ascertained. A repetition of last sea-

son's discouragements and losses seems inevitable. To what extent our government might be able to mitigate these conditions by expediting examination and facilitating delivery on the arrival of the goods we are unable to say, but we should like to see a little more consideration displayed in that direction. From the view point of the seed, nursery and florist trade most of the governmental activities seem to be of a character to perplex and impede rather than to promote and develop our horticultural industries.

A bond of sympathy

A correspondent in this issue of HORTICULTURE asks the pertinent question, why the geranium growers should not now get a higher price for their product than heretofore. He puts the proposition before our readers in a very practical and we hope, convincing light. The "high cost of living" is enriching the farmer and almost everybody else except the flower and plant grower and the magazine publisher. About every item which enters into the cost of making and selling a geranium or any other plant has gone up except the price of advertising same. That remains where it was. Yet everything that goes to make and circulate a journal has also gone up, except cost of mailing and that one soon is liable to be taken away any day. So the makers of HORTICULTURE can sympathize with the makers of geraniums, the only difference in their respective situations being that the latter can switch over, for such time as they choose, to making something else which offers more lucrative returns, while the former has no alternative but to stick or quit.

Boom the sweet pea

The expected shortage in the supply of lily of the valley for the coming season brings to the front a problem for the florist trade as to how the place hitherto occupied by this flower is to be filled. Lily of the valley has come to be almost indispensable for certain classes of floral work but from present outlook it would appear that people who insist upon having it will be obliged to pay well for the luxury unless some unlikely modifications of existing restrictions on shipments from Europe should be made. In casting about for some flower to acceptably fill the gap, the Roman hyacinth will undoubtedly be a first choice and the quantity of these required by the cut flower trade will be far in excess of the requirements of recent years. But the supply of Roman hyacinth bulbs is this year probably not more than one half the normal quantity. We think one effect of these conditions will be a greatly increased sale of winter-flowering sweet peas, especially the white varieties and this is in all respects a pleasing outlook, in that it gives a stimulus to a distinctly American product and one which possesses every qualification for extreme popularity. Growers having facilities for the winter cultivation of sweet peas for local use or in a larger commercial way will in either case find the investment a profitable one and it is not yet too late to make a start. The finest sweet pea seed ever offered anywhere is that which has been advertised in recent issues of HORTICULTURE. The growth in popularity of the sweet pea since the introduction of the winter-flowering Spencers has been most remarkable but this, we feel sure, is only a small preliminary to what the immediate future will have to show.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Depth of Soil

MR. ARTHUR RUZICKA,

Dear Sir: In your excellent article in last week's HORTICULTURE, you stated that four inches of soil is sufficient for any rose. Does this apply to grafted roses? Personally, I can never get my grafted roses deep enough in the ordinary bench. Further, I am now in charge of a range of glass which I have recently rented already planted. The previous owner had his benches ten inches deep for sweet peas. He planted grafted roses, varieties Ophelia, Hoosier Beauty, Aaron Ward, Shawyer and Killarneys. At the present time they are in excellent condition but I am anxious to see if the good work will continue in the dull days of the winter. The house is running north and south instead of east and west. The man told me he always grew grafted roses and that the ordinary bench was useless. Will you kindly advise me how to handle them from now on because they require but very little water, a condition that to me is a sign of alarm, although, as I have stated, they are in fine form at present.

Thanking you in advance.

Yours truly,

J. K.

Yes, we figure on using only four inches of soil for all roses, grafted stock included, and we have at present several houses of grafted stock growing in four inches of soil, and the roses that are out are very nice and there are plenty of them too. It requires care when planting to get the ball well into the soil but we would never use more soil if we can help it. Regarding your plants there is little you can do, outside of giving them good culture. It will also be well to let them get fairly dry before they are watered so as to make sure they will have plenty of root. Should the drainage appear poor it would be advisable to let the plants get quite dry, and then fairly flood them. If this is done once or twice, perhaps even three times on stubborn soils, the drainage will be forced. Care should be taken not to dry them off too much, for they would likely suffer a severe check and might lose some of their leaves. Light soils especially require careful judgment as they often appear wet or moist when in reality they are quite dry. Do not apply any mulch to the plants, until after you are sure of their behavior. You can feed liquid manure and dry manures and fertilizers. If you are in the business commercially, and ship to the wholesale market, we would advise you to cut the list of varieties to two in number, more so if the house you have to grow them in is not a very large one. You will find that you will do better that way than with too many varieties. It will be well to keep your plants sprayed with copper and to use lime freely, applying it with bellows as often recommended here, so that there will be little danger from spot, of which I would be afraid if I were in your place, for if it once gets in among the plants it will be an awful job to get rid of it. The way you write you are taking care of the plants per-

sonally, which will be a big help to you, and with good culture you ought to come out all right and then next season you can plant to suit yourself.

Shaking the Plants After Syringing

In the early-planted houses, and more so with Beauties, it will be necessary to shake the plants a little after syringing so that they will be sure to dry off properly before night comes. It will be best to start syringing early in the morning when the weather promises to be good, so as to finish up by eleven o'clock or at noon at the very latest. This will give the plants a good chance to dry off by night and if a nice dose of lime is blown under them at night there will be little danger from spot and mildew. When done the right way the shaking will not take very much time and can usually be done by a boy employed for just such jobs.

Drainage Under the Benches

With winter coming on it will be well to see that there are no water holes under the benches, and if there are see that they are drained. Houses built on filled-in ground with gravel used as fill, will be much healthier houses for roses than those built over a heavy clay soil. The latter should be sloped so as to allow all surplus water to run right off, through some drain provided for the purpose. If the water is allowed to soak into the ground slowly it will make the house very damp and it will be dangerous, especially now when it is too warm to keep a fire, and then occasionally a real cold morning comes along. Drains can be provided at very little expense and the dollars thus invested will bear good interest.

Weeds

It is not too late to cut all the weeds that may be growing around the greenhouses and as soon as they are fairly dry, burning them. As a rule we do not believe in burning anything that could be plowed into the soil as humus but in this case there will be too many weed seeds to make it safe to plow the weeds in. If it were early in the season, so that the weeds would still be green it would be a different thing, but now there are sure to be some weeds that have already gone to seed and it will be much better to burn them and be rid of them once and for all. While this is being done it will be well to see about the drains between the houses so that when they are needed later on they will be open and ready to do the work. The ends of pipes should be screened so that rabbits, muskrats, etc., cannot get in to make a nest and block the pipes. All ditches should be cleaned out clean and stoned if time will permit.

CLUBS AND SOCIETIES

Coming Exhibitions

Sept. 9-10, Boston. Dahlia and Fruit Exhibition, Massachusetts Horticultural Society, Horticultural Hall.

Sept. 11-16, Louisville, Ky.—Kentucky State Fair.

Sept. 13-14, New Haven, Conn.—Eighty-fourth Annual Exposition of New Haven County Horticultural Society in Republican Hall.

Sept. 18, Orange, N. J.—Dahlia and Horticultural exhibitions of the New Jersey Floricultural Society.

Sept. 22-23, Paterson, N. J.—Fifth annual Fall flower show of New Jersey Floricultural Society at Young Men's Christian Association Hall.

Sept. 23, Maplewood, N. J.—Second annual Dahlia exhibition.

Sept. 26-28, New York, N. Y.—Amer. Dahlia Soc.'s annual show, in Engineering Bldg., 25 W. 39th St. In conjunction with The American Institute of the City of New York.

Sept. 26-29, Chicago.—Vegetable Growers' Association, Hotel La Salle. Annual Convention and Trade Exhibit.

Oct. 7-8, Boston.—October Fruit and Vegetable Exhibition, Massachusetts Horticultural Society, Horticultural Hall.

Oct. 10-12, New Orleans, La.—Eighteenth Annual Convention American Association of Park Superintendents.

Oct. 26-27, Madison, N. J.—Twentieth Annual Flower Show, Morris County Gardeners' and Florists' Society, James Assembly Hall.

Oct. 27-29, Mount Kisco, N. Y.—Fall show of the Northern Westchester County Hort. and Agri. Soc.

Oct. 31-Nov. 1, Greenwich, Conn.—Fall Flower, Fruit and Vegetable Show of the Westchester and Fairfield Horticultural Society.

Nov. 1-5, Boston.—Grand Autumn Exhibition of Plants, Flowers, Fruits and Vegetables, Massachusetts Horticultural Society, Horticultural Hall.

Nov. 1 to 3, Tarrytown, N. Y.—Chrysanthemum show of the Tarrytown Hort. Soc. in Music Hall.

Nov. 8-10, New York.—Annual Chrysanthemum show of the American Institute, Engineering Society Bldg., 25-33 W. 39th St., New York.

Nov. 9-11, Lancaster, Pa.—Fall flower show.

Nov. 9-12, New York.—Fall exhibit Horticultural Society of New York at Museum of Natural History.

Nov. 11-19, New Orleans, La.—Flower show.

Nov. 14-15, Providence, R. I.—Flower show of R. I. Hort. Soc.

The Transactions of the Massachusetts Horticultural Society for 1916, Part 1, has been received. Among the lectures for the season of 1915-16 here published are "The Flowers and Gardens of Japan," by E. H. Wilson, "Garden Writings in America," by Leonard Barron, "Methods Used in Propagation of Plants," by T. D. Hatfield, and "Sweet Pea Diseases and Their Control," by Prof. J. J. Taubenhau.

FLORISTS' CLUB OF PHILADELPHIA.

The September meeting of the Philadelphia Club, held on Sept. 5th, was a notable event, the bright particular star being Eugene H. Michel, of Dreers', on his favorite hobby, the Canna, and right well did he acquit himself. He brought with him from the Riverton Nurseries specimens of all the newest and most up-to-date varieties and talked entertainingly on the merits and demerits of each. We hope to secure a copy of his notes, as they are well worthy of preservation in printed form. The October feature will be October glories in outdoor flowers and the subject will be handled by Wm. Saville of the Michell Nurseries of Andalusia, a rising star among the younger generation of expert growers, with a good overseas reputation behind him, as well as wide experience on this side. He will be well worth listening to and his subject will be illustrated by an exhibit of things in bloom at the specified date—October 3d. The other proceedings, such as nomination of officers, etc., were matters of detail and of only local interest.

CLUB AND SOCIETY NOTES.

The regular meeting of the Cincinnati Florists' Society will be held on Monday, September 11 at Hotel Gibson. There will be bowling after the meeting at nearby alleys.

The St. Louis Florist Club will hold its installation meeting at Sander's nursery, September 14th. As usual automobiles will be in waiting in the wholesale district to convey the members to the grounds.

The preliminary schedule of the flower show to be held June 13 to 16, 1917, under the auspices of the Garden Club of Allegheny County, at Pittsburgh, Pa., has been sent out. The list of premiums is very liberal.

The Gardeners' and Florists' Club of Boston, will hold its opening meeting for the season, at Horticultural Hall, Boston, on Tuesday evening, September 19. It will be a "Ladies' Night" with refreshments and dancing. E. H. Furbush is scheduled to give a stereopticon lecture on Birds.

The Horticultural Club of Boston held its first session for the season at the Parker House on Wednesday evening, September 6. The table was gorgeously decorated with seedling gladioli by William Sim and Scotch heather by William Anderson. When such gladioli as Mr. Sim showed can be grown from seed it would seem almost superfluous to bother about naming varieties for they were in all respects equal to the best class of named sorts.

Meetings Next Week

Monday, Sept. 11.

Cleveland Florists' Club, Hollenden Hotel, Cleveland, Ohio.
Gardeners' and Florists' Club of Baltimore, Florists Exchange Hall, Baltimore, Md.
New York Florists' Club, Grand Opera House, New York City.
Rochester Florists' Association, 95 Main St., East Rochester, N. Y.

Tuesday, Sept. 12

Newport Horticultural Society, Newport, R. I.

Wednesday, Sept. 13.

Cincinnati Florists' Society, Jabez Elliott Flower Market, Cincinnati, O.
Dutchess County Horticultural Society, Fallkill Bldg., Poughkeepsie, N. Y.
Lenox Horticultural Society, Lenox, Mass.
Morris County Florists' and Gardeners' Society, Madison, N. J.
Nassau County Horticultural Society, Pembroke Hall, Glen Cove, N. Y.

Thursday, Sept. 14.

Menlo Park Horticultural Society, Menlo Park, Calif.
New London Horticultural Society, Municipal Bldg., New London, Conn.

Friday, Sept. 15.

North Shore Horticultural Society, Manchester, Mass.

DURING RECESS.

Holyoke and Northampton Club.

The annual picnic of the Holyoke and Northampton Florists' and Gardeners' Club was held Wednesday afternoon, August 30, at the Gallivan Brothers' farm at Smiths Ferry. More than one hundred were present, including the club members and their families and invited guests. A feature of the afternoon was the baseball game between the married and single men. R. S. Carey was captain of the married men's team which won the game, and Ned Hennessey of Northampton captained the defeated team of single men. Visits of inspection were paid to the local greenhouses. Visitors from the state college at Amherst and the Smith College greenhouses at Northampton were present.

The Garden Club, of Newport, has purchased the property in Howard street, known as the Bruen estate, running from Bellevue to Coggeshall avenue. The stone villa and acre of land will be used as the headquarters of the club and minor exhibitions will be held there, while the more elaborate displays will be arranged on a larger field. More property would be acquired in another part of Newport, where the horticultural exhibitions will be held in the future.

The Glory Fern (*Adiantum Farleyense Gloriosa*)

Adiantum Farleyense Gloriosa

THE GLORY FERN or RUHM VON MORDRECHT

This splendid Fern which so closely resembles *Adiantum Farleyense* in appearance and which does not require the special skill and care in growing that is necessary to produce good plants of *A. Farleyense*, has quickly made a place for itself not only on account of the fact that it can be produced for little over half that of growing *Farleyense*, but also because either in a cut state or as plants used in decorative work, it will outlast the old variety ten to one, making it an available subject where *Farleyense* can not be used at all. Since its introduction some 5 or 6 years ago there has never been a supply large enough to meet the demand. With this in mind we have prepared this season an extra large stock, which is in prime condition and we now offer select

3 inch pots, \$2.00 per doz.; \$15.00 per 100; \$140.00 per 1000

4 inch pots, \$3.50 per doz.; \$25.00 per 100

For a Complete list of seasonable stock see our current Wholesale List.

The above offer is intended for the trade only.

HENRY A. DREER

714-716 Chestnut Street,

PHILADELPHIA, PA.

ADVANCING OF PRICES— WHY NOT?

Can any grower give a good reason why he should continue to sell geraniums at the old established price of \$7.00 per hundred in 4-inch pots (and give the pots), a price which was one of the customs in use 15 or 20 years ago, at which time he paid between \$6 and \$9 for his labor and all supplies used were purchased at less than half the present prices? For instance, one grower pointed to a pile of old newspapers used in packing, for which he paid \$15, just three times the cost of two years ago and twice the cost two months ago for the same quantity and he says that \$7.00 per hundred for 4-inch geraniums being an established price, he fears that with an advance he would be unable to move his stock.

I suppose he and all other growers will agree that the market value (so advertised) of geraniums out of 2½ pots is \$25 per 1000 whether he buys or sells and he will also agree to figure the 4-inch pot at one cent, making 3½ cents indisputable cost. He must then figure nine or more other items of expense before the 4-inch geranium is sold—viz, labor, coal, soil, water, fertilizer, rent, taxes, interest on investment, delivery and perhaps some will also figure tools, implements, repairs, etc., all of which are sure expense. In labor and coal we find the greatest expense while the raw material such as soil and water is very small. Under head of "labor" can be figured time spent in growing the plant for market, usually from October until spring.

To sum the above I believe the grower does not obtain a new dollar for the old one on 4-inch geraniums at \$7.00 per hundred.

I also gather from talks with representative geranium growers that none of them will ever pay a very large income tax if they continue to sell at

such low prices. As I stated last week I am not a florist; but coming in daily contact with them and watching their troubles I should like to have some geranium grower explain how he does it.

Sharon Hill, Pa.

P. M. READ.

A HARDY FERN GARDEN.

Our cover illustration shows a small corner in the hardy fern garden which is a conspicuous and always fascinating feature of the extensive rock gardens arranged and lovingly cared for by that distinguished gardener, J. F. Huss, superintendent of the Goodwin estate in Hartford, Conn. In addition to the numerous natural fern genera and species Mr. Huss has gathered together an almost endless variety of forms with exquisitely fringed laciniated and crested fronds, many of them of extreme beauty. Among those which appear in the picture one of the most unusual and conspicuous is *Aspidium corringeanum rosea* pictum, which has pale silvery fronds tinted with pink and bronze. It is not a very rapid grower, but notwithstanding its somewhat tropical appearance, is perfectly hardy and is a veritable gem for the fern rockery.

FRENCH BULBS DESTROYED.

We are sorry to learn that the steamship "Saxonian," which was sunk by a torpedo in the Mediterranean, after leaving Marseilles last Sunday week, carried about two-thirds of the French bulb crop destined for England. It consisted of Roman Hyacinths, Freesias, and other French bulbs. The crop was a very poor one, and the bulbs were small, but it is a loss to horticulture which cannot be replaced this season. We heard on Tuesday that Messrs. Sutton, Carter, Howercroft, and some other big buyers had consignments in this ship, which are all now at the bottom of the sea.—Hort. Adv., Aug. 22, 1916.

Perhaps the same steamer carried a good many French bulbs destined for America as well as England.—Ed.

Large Xmas Peppers

Also BIRD'S EYE PEPPERS

Exceptionally Fine 4 Inch Stock at \$8.00 per Hundred.

ALSO

ASPARAGUS PLUMOSA

4 in. pots at \$8.00 per Hundred

Extra Fine Stock for Planting Out

A. L. MILLER

JAMAICA, N. Y.

REMEMBER!

If it's a Hardy Perennial or so called Old Fashion Flower worth growing, we have it in one shape and another the year round. We have the largest stock in this country, all made in America, and our prices

will average 75c. per doz., \$5.50 per 100.

Why say more here? Send for our Wholesale Price List of varieties and benefit from the opportunities this affords you. Address

PALISADES NURSERIES, Inc.

R. W. CLUCAS, Manager.

SPARKILL - - N. Y.

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.

WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.

ROOSEVELTS—\$5 per 100, \$40 per 1000.

BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

Weymouth, Mass.—William Humes and A. J. Duffin, who have been employed in the Smith College greenhouses at Northampton, have purchased a greenhouse and will start in business here.

Early Flowering LONG SEASON Spencer Sweet Peas

for Winter Flowering Under Glass

Since the introduction of Yarrawa Spencer Sweet Peas, great effort has been made on the part of California and Australian growers to produce Early-flowering Spencer Sweet Peas. We offer a list of varieties by one of the most prominent Californian and one of the most prominent Australian growers. One of their chief characteristics is their long season, period of blooming, frequently remaining in bloom for four months. Every one of the crosses were made from the old Early-flowering or Christmas Grandiflora types on the late or Standard Spencers as parents. We feel that there will be little demand for the common or Grandiflora Winter-flowering Type and have, therefore, decided to discontinue offering the same.

Californian Varieties Ready for Delivery August—September

EARLY MORNING STAR

The color is a deep orange scarlet or flame color in standard, with rich, orange-pink wings. The flower is practically the same color as the Late-flowering Spencer Thomas Stevenson. It does not burn out in the open and under glass will be magnificent. The flowers are large and of best Spencer form, and borne in threes and fours in wonderful profusion. Pkt., 15 seeds, 25c.; ¼ oz., \$1.50; oz., \$5.00.

EARLY SNOWFLAKE

This is one of the best Early-flowering White-seeded White Spencers. The blossoms are very large and of the best waved Spencer form. The flowers are borne in wonderful profusion on long stems. The form is every bit as good as White Spencer. Pkt., 15 seeds, 25c.; ¼ oz., \$1.50; oz., \$5.00.

EARLY SPRING MAID

Those who are familiar with the Late-flowering Spencer Mrs. Hugh Dickson, will have a good idea of what a handsome variety this is. The color is a light pink on a cream ground, and the blossoms have the same splendid characteristics of Mrs. Hugh Dickson for a florist's flower. It is a most effective flower and, like our other Early-flowering Spencers, it carries a great wealth of blossoms borne in fours on long stems. There is no Early Spencer Cream Pink which is as attractive as Early Spring Maid. Pkt., 25 seeds, 25c.; ¼ oz., \$1.25; oz., \$4.00.

EARLY MELODY

This is a deeper shade of pink than Early Song Bird on white ground, closely resembling Countess Spencer and near Hercules. It might be described as rose pink on white ground. The effect, when bunched, is most pleasing. It is very floriferous. The flowers are borne on long stems and mostly four large, well waved blossoms to each stem. Pkt., 25 seeds, 25c.; ¼ oz., \$1.25; oz., \$4.00.

EARLY SONG BIRD

The flower is the same color as Florence Morse Spencer and Lady Evelyn Eyre, and a bit lighter than Elfrida Pearson. It has the same excellent form and features of Mrs. Hugh Dickson, but is on a white ground. The placement of the flowers is splendid for packing and the flowers are borne on long stems in threes and fours. When in full growth it seemed as though every stem carries four large blossoms. Pkt., 25 seeds, 25c.; ¼ oz., \$1.25; oz., \$4.00.

EARLY HEATHER BELL

This will be one of the most popular shades with all florists, as it will be useful for making up for any occasion. It is a little like the variety known as Anita Wehrman, but vastly superior in every way. The flowers are very large, borne in fours and threes on long, stout stems, and are of beautiful, bold Spencer form. The color is a rich but pleasing mauve, but after standing in water the color becomes a beautiful mauve lavender. Pkt., 25 seeds, 25c.; ¼ oz., \$1.50; oz., \$5.00.

Australian Varieties Ready for Delivery NOW

CONCORD STRAIN

Pkt., 18 seeds each of any of the following varieties, 35c.; 5 pkts., \$1.50

CONCORD PINK. A beautiful, new variety of a most attractive shade of delicate pink. The flowers are large and of true Spencer form. The stems, which are long and strong, usually carry 3 large flowers.

CONCORD CRIMSON. A variety of great merit on account of its glowing color. It is a rich crimson; the flowers, of true Spencer form, are borne on strong, stiff stems.

CONCORD LAVENDER. Without a doubt this is the finest of all Lavender Winter-flowering Sweet Peas. The color is a beautiful shade of rich, rosy lavender. The flowers are of true Spencer form.

CONCORD WHITE. A splendid, pure white variety of wonderful vigor and

substance. The flowers are pure white and of ideal Spencer form, borne three and four to the stem.

CONCORD SALMON. A rich shade of salmon pink and very free flowering. The flowers are borne three and four to a stem and are of true Spencer form.

CONCORD BLUE. This magnificent variety is of a beautiful sky-blue color, sometimes varying darker, the variation, however, being slight. Quite the finest sky-blue we know of.

CONCORD PURPLE. A leader in its color. When first opening, a delightful shade of mauve purple, changing, as the flower ages, to purple blue. The flowers are of ideal Spencer form and quite large.

YARRAWA

The finest Rose Pink Winter Flowering Spencer; the ideal florist variety. Pkt., 15c.; ¼ oz., 35c.; ½ oz., 60c.; oz., \$1.00; ¼ lb., \$3.25; lb., \$12.00.

PLACE YOUR ORDERS NOW

Stump & Walter Co

30-32 BARCLAY STREET

Dept. C.

NEW YORK CITY

NEW HYBRID WATER-LILIES

Climatic conditions in St. Louis during the summer are admirably adapted to the growth of tropical lilies. Within the last four years the aquatic collection at the Garden has been greatly augmented, and the area of water devoted to this fascinating branch of floriculture considerably extended.

Water-lilies may be divided into two groups: (1) diurnal flowering, representatives of the two sub-groups, Anemophya and Brachyceras, and (2) nocturnal flowering, more commonly called the "night bloomers," which are representatives of the Lotos group. During a bright August day flowers of the diurnal lilies will be open between 7.00 A. M. and 7.00 P. M., but if the weather is dull and rainy they remain closed. In the night bloomers the flowers open at sunset and stay open until about 10.00 o'clock the following morning. However, if the weather is inclined to be cloudy, they will remain open during the entire day, acting the reverse of the diurnal type.

The blossoms of the nocturnal lilies are considered by many far superior to those of the diurnal, or "day bloomers," and thus many visitors coming to the Garden during the water-lily season, are disappointed. With this in mind, a number of experiments are being carried on in an effort to improve and fix the few types of day bloomers, the present-day plants having resulted largely from insect pollination, especially the Brachyceras representatives.

The *Nymphaea capensis* and its varieties, commonly found in gardens, are far from the typical species. They are the crosses resulting from insect pollination, between the blue and rose, and possibly the Egyptian *N. caerulea*, until we find gradations of color from the darkest blue to deep pink. These, being self-pollinated, result in a breaking up into blues, pinks, and dark pinks.

One method of selecting the color of lilies to be planted out is to examine the under side of the young leaves, the color which appears here usually giving some indication of the ultimate color of the flowers. This somewhat haphazard method undoubtedly eliminates the tedious work of preparing the flowers for pollination, but is not to be advocated, as the true identification of the parents is always lacking in hybrids of this nature.

Pollination.—Probably the best month for experiments in pollination is August, when the plants have usually attained their maximum growth and are producing their best flowers. Interbreeding must be done at a time when the concave stigmas of the flowers are well filled with nectar, as without this fertilization cannot be accomplished. Experience has shown that the hours between 9.00 and 11.00 A. M. are best suited for this process.

Plants are selected which will produce the desired qualification in the progeny. The pistillate parent, or flow-

WINTER SPENCER SWEET PEAS

NEW CROP SEED READY FOR DELIVERY NOW.

	1 oz.	4 oz.	1 lb.
APRICOT ORCHID. Mostly apricot seed	\$1.50	\$4.50	\$15.00
BELGIAN HERO. A beautiful rose	3.00	10.00	35.00
BOHEMIAN GIRL. Light pink	1.50	4.50	15.00
BRIDAL VEIL. Pure white	1.00	3.50	12.00
CHRISTMAS PINK ORCHID. Pink, white wings	3.00	10.00	35.00
MRS. A. A. SKACH. Bright pink	.65	2.00	7.50
MRS. JOHN M. BARKER. Lilac	1.50	4.50	15.00
MRS. JOS. MANDA. Light shell pink	.65	2.00	7.50
MRS. M. SPANOLIN. Double white	1.00	3.50	12.00
MORNING STAR. Self pink color	3.00	10.00	35.00
ORANGE ORCHID. Standard orange, wings dark salmon pink	1.50	4.50	15.00
ORCHID BEAUTY. Rose-pink, with orange	.75	2.50	9.00
PINK-AND-WHITE ORCHID	.65	2.00	7.50
RED ORCHID. Bright cherry red	.75	2.50	10.00
SENSATION. Newman & Legg's Christmas Pink Orchid	3.00	10.00	35.00
SENSATION SCARLET. Bright scarlet	3.00	10.00	35.00
THE CZAR. Rose, wings white, mottled pink	3.00	10.00	35.00
VENUS. Blush pink	1.50	4.50	15.00
WHITE ORCHID. Pure white	.65	2.00	7.50
YARRAWA. Bright rose pink. Australian grown seed	2.00	7.00	24.00
Californian grown seed	.65	2.25	8.00
MIXED SPENCERS, WINTER FLOWERING: oz., 65c.; ¼ lb., \$2.00; 1 lb., \$7.50.			

CYCLAMEN—Boddington's Gigantic

Sow Now For Best Results

	Tr.	100	1000		Tr.	100	1000
	pkt.	seeds	seeds		pkt.	seeds	seeds
CHERRY RED.....	\$0.50	\$1.00	\$9.00	PEACH BLOSSOM. Rose color	\$0.25	\$0.75	\$7.00
CRIMSON.....	.25	.65	6.00	PRINCESS MAY. Color pink	.50	1.00	9.00
CRIMSON AND WHITE..	.50	1.00	9.00	ROSE OF MARIENTHAL. Shell pink	.25	.65	6.00
LILAC.....	.25	.65	6.00	SALMON KING. Finest salmon	.50	1.00	9.00
PINK. Soft pink.....	.25	.65	6.00	SALMON QUEEN. salmon.	.50	1.00	9.00
ROSE. Light rose.....	.25	.65	6.00	SALMONIUM SPLENDENS. Fine salmon-pink	.25	.80	7.50
SNOWFLAKE. White.....	.25	.65	6.00	WONDER (GLORY) OF WANDSBEK. Intense salmon red	.50	1.00	9.00
SYRINGA-BLUE.....	.25	.65	6.00	MIXED.....	.25	.60	5.50
WHITE BUTTERFLY....	.50	1.00	9.00				
PHOENIX. Cherry-crimson	.50	2.00	18.50				
PURPLE KING.....	.25	.80	7.50				
VULCAN. Rich crimson.	.50	2.00	18.50				

Our Wholesale Catalogue of Bulbs and Seasonable Flower Seeds is now ready. Free to Florists on Request. 25 PER CENT. DISCOUNT FOR CASH WITH ORDER.

ARTHUR T. BODDINGTON CO., Inc., 128 Chambers St., New York City



Boddington's Re-selected Winter-flowering Spencers as grown by Wm. Sim, Cliftondale, Mass.

er which is to bear the seed, is carefully emasculated in the bud stage. This should be done the day before opening, when the stamens are easily broken off and no sign of pollen has appeared. The bud is then allowed to close. The next essential factor is the total exclusion of all insects by enclosing the bud in fine cheese-cloth and tying below the ovary. The staminate parent, or flower which is to supply the pollen, is then selected, also in the bud stage, and is protected in the same manner as the emasculated flower. Pollen should never be removed from anthers which have been exposed to the insect's trail, because of the possibility of foreign pollen being left behind. The second day the act of pollination is accomplished by the aid of a camel's-hair brush, the pollen readily adhering to the brush, especially if it is passed over the anthers with an upward movement. The pollen thus obtained is then deposited on the stigma which is filled with nectar, the nectar immediately changing to a light yellow color. The flower is then rewrapped, securely fastened to a stake, and a label attached indicating the cross. Within three weeks the seed will be ready for collection.—*Missouri Botanical Garden Bulletin.*

Wm. H. Mihm, business manager of J. Bolgiano & Son, and a party of friends motored from Baltimore through the Alleghany Mountains where they have been the guest for the past few days of Charles J. Bolgiano at his mountain home near Mountain Lake Park, Md.

ONE WEEK'S IMPORTS.

Imports at the port of New York, of horticultural material, for the week ending August 18, were recorded as follows:

Bulbs—France, \$1,698; Netherlands, \$15,220; England, \$92; China, \$1,144; Japan, \$18,114.

Plants—Netherlands, \$210; Brazil, \$46; Columbia, \$64.

Red Clover Seed—Canada, \$258.

Clover Seed—France, \$934; Eng-

land, \$6,587; Canada, \$406; Japan, \$871.

Grass Seed—Denmark, \$2,439; France, \$741; Spain, \$4,155.

Other Seeds—Denmark, \$654; France, \$38; Netherlands, \$2,000; Hongkong, \$65; Japan, \$3,633; Italy, \$2,104; England, \$1,966; Trinidad, \$47.

Nitrate of Soda—Chile, \$85,077.

Kansas City, Mo.—The Rudy-Patrick Seed Co. has increased its capital stock from \$100,000 to \$150,000.



View in Gladiolus Show Room of R. Hammond Tracy, Wenham, Mass.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

The time has arrived when our readers are expecting a preliminary crop report. We cannot give a detailed report covering every family of seeds, but a summary sufficiently in detail to convey a fairly accurate idea of this year's vegetable seed crops, at least in so far as it affects standard varieties.

The Pea Crop.

The pea crop is now made for this year, and is one of the first of our important seed crops to mature. It must be borne in mind, however, that the crops are not yet harvested, excepting parts of the earliest varieties, and a protracted period of rainy weather right now might do very great damage, increasing greatly the cost of hand-picking and the shrinkage. Omitting this factor in our estimates, we may say that the condition of the general crop is about as follows. In Wisconsin, Michigan and Canada, Extra Earlies and Alaskas will average slightly above three-fold. The Sweet Wrinkled sorts will be about three fold or slightly under. The yield in Idaho will be about five fold for Alaskas and Extra Earlies. The Large Podded Earlies, such as Gradus, Thos. Laxton, Laxtonian, Pilot and Little Marvel will be about from four to four and one-half fold. The late Long Podded varieties about five to six folds. The old Standard Dwarfs—Nott's Excelsior, Sutton's Gems, etc., will be about like the Gradus and Thos. Laxton type, Champion of England Everbearing, Long Island Mammoth, etc., will average up with the late long pods. In Montana and Washington the yield will be better. Canada Field will not exceed forty per cent. and quite possibly not above 25 per cent. of an average.

Bean Estimate and Prices.

Beans are not sufficiently matured to make definite estimates safe, but certain facts affecting the general situation can be stated. In New York State the bean crop may be characterized as a failure. This applies to commercial as well as seed beans. Cannors who pack string beans have secured 200 to 400 lbs. per acre, when they should have had not less than 2,000 lbs. Conditions in Michigan are much the same as in New York State. Spot White Mediums are selling at \$6.00 per bushel while White Manons and White Kidneys are quoted when procurable at \$7.00 to \$7.50. A large acreage was planted in Colorado mainly in irrigated land, but have not had sufficient water, and the crops are short, estimated at five to six fold. In Montana and Idaho, the yield promises much better, but no estimates are available, and the percentage of the total planted in these states we have not learned. No responsible grower

will make any estimate of deliveries at this time, and will not for several weeks. However, it is a safe bet that few items will be filled 100 per cent.

Corn.

Corn is late, and has suffered more or less by drought and heat. Sound, vital seed corn will sell at good strong prices, and will be in good demand, but manifestly estimates at this time would be mere guesswork.

California Crops.

Excepting Sweet Peas and Salsify, we are informed that standard California seed crops are fairly satisfactory, and barring these two items, contracts will be delivered well towards the hundred per cent. mark.

Just as the above was written information comes to us that culinary peas have been a very disappointing crop in California this year, and that a number of inquiries have been received by eastern growers from Pacific coast seedsmen. Evidently there will be an active demand for high quality stocks of seed peas the coming season. Prices received for green peas in the pod have been uniformly high the present season, and there has been a keen inquiry. Here is another factor that will stimulate demand. Peas are going to be desirable property.

European Crops.

The crop situation in Europe is most unsatisfactory. A large number of items are listed as failures, while many are down to 10, 15 and 20 per cent. These figures cover most varieties of garden beets, sugar beets, kale, chard, cabbage, carrot, parsley, parsnips, peppers, celery, celeriac, herb seeds, chicory, endive, kohlrabi. Mangels range from 10 to 15 per cent., radish 50 to 100 per cent with items occasionally marked failures. One or two items in spinach are marked failures while others are estimated at 20 to 50 per cent. Some items in turnips are classed as failures, most varieties at 10 to 75 per cent and only one or two at 100 per cent. Swedes range from 10 to 40 per cent with one or two failures. Referring to carrots again most varieties are listed as failures and same of celery while nearly half the line of cabbages are in the same list.

An important factor which cannot be ignored is the probability of embargoes being proclaimed against any variety or family of seeds, therefore the European seed situation is uncertain and most unsatisfactory, as one never knows whether goods bought will be delivered.

Vine Seeds.

We have almost overlooked vine seeds, about which we have no very clear information. Such as we have leads to the conclusion that the crop is quite unsatisfactory, and this applies especially to muskmelons and squashes.

MICHELL'S FLOWER SEED

NEW CROP

CYCLAMEN SEED

ENGLISH GROWN

	100 Seeds	1000 Seeds
Duke of Connaught, Crim- son	\$1.00	\$8.50
Excelsior, White with Eye	1.00	8.50
Grandiflora Alba, White	1.00	8.50
Princess of Wales, Pink	1.00	8.50
Salmon Queen, Salmon pink	1.00	8.50
Mixed Colors .....	.90	8.00

PANSY SEED

GIANT EXHIBITION MIXED. A Giant Strain which for size of bloom, heavy texture and varied colors and shades cannot be surpassed. Half trade pkt., 30c.; 50c. per tr. pkt.; per 1/2 oz., 75c.; \$5.00 per oz.

Also Giant Prize and Bedding varieties in separate colors.

MIGNONETTE SEED

MICHELL'S COLOSSAL

A strain which cannot be surpassed for forcing; immense flower spikes. Our seeds are saved from greenhouse grown specimens and give splendid results. Trade pkt. 40c., \$4.00 per oz.

Send for Our Latest Wholesale Catalogue if you haven't a copy.

HENRY F. MICHELL CO.

518 Market St., Philadelphia, Pa.

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

Cucumbers will be a light crop though no famine prices are probable. We hope soon to give more detailed information about vine seeds and some other items now clouded more or less.

The Ferry Entertainment.

The entertainment planned by D. M. Ferry & Co., for their canner guests, whom they had invited to visit their trial grounds at Oakview near Detroit, August 11th, proved a great disappointment to them we are informed. Preparations had been made on a scale of liberality characteristic of this great company, but the guests come not, but in small numbers. We learn that a large number of the leading canners were invited, but either because of their being busy or the characteristic indifference of the canners, few responded. It requires much patience and tact to deal with the average canner, as any one who has had the experience can assert.

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes
Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of
Commerce Bldg., Boston, Mass.

Lilium Harrisii Bulbs

	Per 100	Per 1000
5 in. to 7 in.	\$5.00	\$40.00
7 in. to 9 in.	9.00	80.00
9 in. to 11 in.	22.00	

FREESIA REFRACTA ALBA

	Per 100	Per 1000
Mammoth Size	\$1.75	\$12.00

For Immediate Delivery

ROMAN HYACINTHS, 12-15**PAPER WHITE NARCISSUS
GRANDIFLORUS**

Prices on Application

J. M. THORBURN & CO.

53 Barclay Street
Through to 54 Park Place
NEW YORK CITY

**LILIUM GIGANTEUM
COLD STORAGE**

Extra Selected Stock. Gladiolus for forcing.
Nanus, Colvilled or large flowering
type. Greenhouse Fertilizers. Ask
for 1916 Seed Catalogue.

Joseph Breck & Sons Corp., Seedmen
47-54 No. Market St., BOSTON, MASS.

W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries

166 W. 23rd St., NEW YORK

Burpee's Seeds
PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter flowering Pink Snapdragons on
the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.

PHILADELPHIA, PA.

My new Price List of
WINTER-ORCHID-FLOWERING SWEET
PEA SEED

Has been mailed. If you have not received
a copy, send me postal. Part of new crop
will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

MIGNONETTE

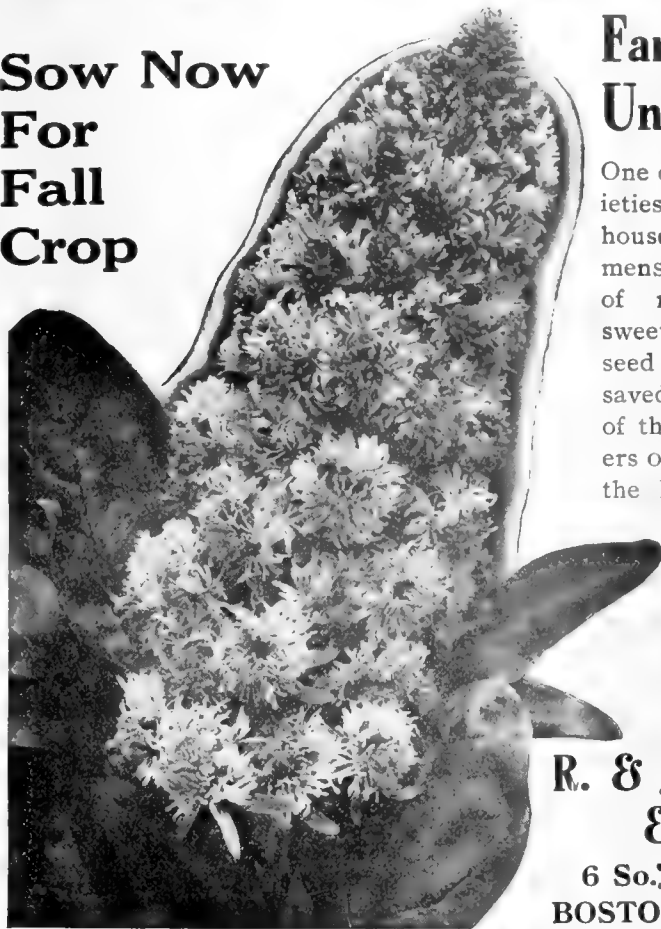
IMPROVED ECLIPSE.

Superior to all others for winter bloom-
ing, exhibition, or cutting. Immense frag-
rant spikes 10 to 15 inches long. Green-
house grown seed from a re-selected strain
Pkt. 25c., 1/16 oz. \$1.00. Catalogue upon
application.

THOMAS J. GREY CO., Seedsmen
29 So. Market St., Boston, Mass.

MIGNONETTE

**Sow Now
For
Fall
Crop**

**Farquhar's
Universal**

One of the finest var-
ieties for the green-
house, producing im-
mense flower spikes
of reddish green,
sweetly scented. The
seed we offer was
saved for us by one
of the largest grow-
ers of Mignonette for
the Boston market.

Ounce \$15.00

1-4 oz. . . 3.75

1-8 oz. . . 2.00

1-16 oz. . 1.00

**R. & J. Farquhar
& Co.**

6 So. Market St.
BOSTON, - MASS.

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.**AMERICAN BULB COMPANY**

172 N. Wabash Ave.

CHICAGO, - ILL.

We are now ready to book orders for French and Dutch
Bulbs, Lilies and other Florists' Necessities.

WRITE US FOR PRICES

POINSETTIAS

August Shipment

True type, fine 2½ inch plants, shipped in
paper pots, \$6.00 per 100, \$50.00 per 1000.

A. HENDERSON & CO.

211 N. State St.

CHICAGO, ILL.

NEW CROP SEEDS

PANSY SEED. Giant flowering florist mix-
ture. American grown. (Best money can
buy.) 50c. per tr. pkt., ¼ oz. \$1.50, oz. \$5.00.
PANSY SEED SPECIAL. Greenhouse mix-
ture for forcing; long-stemmed. \$1.00 per
tr. pkt., ¼ oz. \$1.50, ¼ oz. \$2.50; oz. \$8.00.
SWEET PEAS. Zvolanek's Orchid Flower-
ing in all varieties. I have his agency
this season.

ROMAN J. IRWIN.

Plants, Cuttings, Bulbs, Seeds.

108 West 28th Street - New York.

When writing Advertisers kindly mention Horticulture

ALEX. McCONNELL611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Cost of Cabling Foreign Deliveries Must be prepaid

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

For KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for New York. Write or Phone to

MAX SCHLING

22 West 59th Street, Adjoining Plaza Hotel

Best Florists in the States as References.
EUROPEAN ORDERS EXECUTED.
Members of the Florists' Telegraph Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO**DAVID CLARKE'S SONS**

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, New York
Telephone 1553-1555 Columbus

YOUNG & NUGENT42 West 28 Street
New York

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

WORCESTER, MASS.

Randall's Flower Shop

HARRY L. RANDALL, Proprietor.

Member Florists' Telegraph Delivery Association

Of Interest to Retail Florists

NEW FLOWER STORES.

Atchison, Kan.—W. F. McCaskill, flowers and seeds.

Cincinnati, O.—R. G. Kootz Floral Co., 512 Race street.

Chicago, Ill.—H. Jacobson, 955 East 55th street. G. F. Gerasimos, 6302 University avenue.

VISITORS' REGISTER.

New York.—Harry Quint, Boston; H. A. Barnard, representing Stuart Low Co., Enfield, Eng.

Boston.—Charles A. Gitchell, Louisa, Va.; C. A. Dards and family, New York; C. S. Strout, Biddeford, Me.

Chicago.—Mr. and Mrs. Richard I. Rollins and son, Des Moines, Ia.; P. N. Obertin, Kenosha, Wis.; R. G. Kootz, Cincinnati, O.

St. Louis, Mo.—E. G. Hill, Richmond, Ind.; E. F. Paterson, Morris La Vine and Ed. Dikes of New York; Samuel Seligman and Robt. Newcomb, Chicago.

Washington, D. C.—T. J. Wolfe, Waco, Texas; Mr. and Mrs. K. W. Franke, of George L. Bruffey & Co., University of Virginia, Va.; Mr. and Mrs. Emmett Palmoro, of Hammond's, Richmond, Va.

Cincinnati.—Paul Berkowitz of H. Bayersdorfer & Co., Philadelphia; Chas. L. Baum and Mr. Mann, Knoxville, Tenn.; C. E. Ruck, Richmond, Ind.; E. Officer and A. Horn, Soddy, Tenn.; Miss Fanny White, Lexington, Ky.

Philadelphia.—R. J. Baversox, Lewiston, Pa.; Wm. Grover of Howard & Smith, Los Angeles, Cal.; Harvey Sheaff, representing Mrs. Williams, Pittsburgh, Pa.; Miss L. B. Gadbey, St. Augustine, Fla.; C. A. Fouse, Mt. Union, Pa.; Fred Berger, Baltimore, Md.; L. J. Reuter, Westerly, R. I.

NEWS NOTES.

Bridgeport, Ct.—Burglars broke into the West End florist store on Broad street on the night of August 24 and robbed the cash register.

Worcester, Mass.—Fred B. Madaus, florist, at 372 Main street, has taken a lease of the entire store at 370 Main street, and will remove his store to the new location at once.

Worcester, Mass.—W. L. Luby and W. N. Estabrook have taken over the business of Mrs. May Fisher at 539 Main street and will make extensive improvements in the store.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address Dardsflor.

JOHN BREITMEYER'S SONSCor. Broadway and Gratiot Aves.
DETROIT, MICH.**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery Association.

GUDE BROS CO
1214 F ST NW
WASHINGTON DC**GUDE BROS. CO.**
WASHINGTON, D. C.

Member Florists Telegraph Delivery

**IN THE
National Capital**

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 306. Long Dist. Bell Phone 2120
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.**THE ROSERY**

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEWPORT, R. I.

145 Bellevue Avenue.

WE GUARANTEE SATISFACTION

MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1836 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST
THOMAS ROLAND, Nahant, Mass.

KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State
St.

Albany, N. Y.—The Rosery, 23 Steuben
St.

Albany, N. Y.—William C. Gloeckner, 97
State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont
St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

New London, Conn.—Reuter's.

Newport, R. I.—A. T. Bunyard, 145 Belle-
vue Ave.

New York—J. H. Small & Sons, 505 Mad-
ison Ave., at 52d St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—Max Schilling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

Penn The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery
124 Tremont St., **BOSTON**

REUTER'S Members Florists
Telegraph
Delivery

STORES IN
New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence
ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only
THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue
The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
106 STATE STREET, **ALBANY, N. Y.**



NEWS ITEMS FROM EVERYWHERE

CHICAGO

Some alterations and improvements are under consideration in the Atlas Flower Store this fall.

R. G. Kootz was in Chicago recently making arrangements for stock for a new retail store in Cincinnati, O., to open about Sept. 15th.

Morgan Park, Chicago's most southern suburb, had a very successful flower show on two days of last week, and the event is going to be an annual affair.

Among the week's visitors were Mr. and Mrs. Richard I. Rollins who with their son had been spending a month's vacation in the East and are now on their way home to Des Moines, Ia.

A. L. Vaughan, who has been connected with the wholesale flower business of Chicago for a generation, and whose opinion is always valued, says the day of the very long stemmed American Beauty rose is forever gone in this market, and commercially it is undesirable. He thinks from 18 in. to 36 in. should be the aim of the grower and that there is use for but very few longer ones.

Mrs. A. L. Vaughan and daughter have returned from a trip through the West and down the Coast. Allie Zech of Zeck & Mann took his family to La Porte, Ind. to spend Labor Day. Charlie Rogers, proprietor of the Washington Flower Market, has returned from a month's stay in Michigan and Indiana. M. C. Gunterberg is the last one to return from the convention. Her trips are well known as business getters and some valuable additions to her list of shippers is looked for.

One who has recently traveled through the west, says one of the queerest sights he saw on the Pacific Coast was in a range of greenhouses for plant growing for commercial purposes. It was quite a pretentious place and made an imposing appearance, but fancy the visitor's surprise when entering the place he found a large proportion of the plants growing in tin cans, which, he was told, is nothing unusual. The high freight rate was said to be the cause, although there are flowers pots manufactured on the western slope.

WASHINGTON, D. C.

The Dunbar Floral Company, of Alexandria, Va., is cutting some excellent summer American Beauty roses.

David J. Grillbortzer, who recently purchased the houses of George Field, has been hauling glass to his place in Alexandria, Va.

It is rumored around town that Samuel Simmons, who up to the first of the month has been employed as the gardener of the Leiter estate, is contemplating becoming a commercial grower.

"Bob" McLennan, of the Bureau of Plant Industry, has just returned from a trip to Philadelphia, Pa., and Camden and Trenton, N. J., where he went to select plants for the grounds of the

Department of Agriculture in this city.

The Leo Niessen Company is planning to open its new store about the fifteenth. Manager Albert Schnell is planning to get everything in shape and the wheels of business running smoothly before the commencement of the fall rush.

Carroll Carrick is spending his vacation in Virginia. Leo Geyer is automobiling among northern seashore resorts. Hardy Pritchard is absent on a two weeks' vacation. They are all employees of Gude Bros. Co. Fred Miller is taking advantage of a two weeks' vacation to motor around this territory; Miss Bessie Pettet is registered at Shadyside, Md., and Miss Nellie Toogood will avail herself of a two weeks' leave. These are in the employ of the Washington Floral Co. Nearby spots were depleted of fish when Ed Niedomanski and George C. Dalgleish got out their rods and lines last week. The former tried out Colonial Beach, the latter Chesapeake Beach—neither caught anything worth while, except when they tell about it. Jake Richards is another devotee of fishing, but he has better luck. Mr. and Mrs. J. A. Phillips, of the Mount Pleasant district, spent a very enjoyable holiday camping near Martinsburg, W. Va.

NEW YORK.

Phil Kessler is back at the helm of business after an extended vacation in the Catskills.

J. R. Lewis, formerly with The Florists' Exchange, is now with R. M. Ward & Co., the Lily House.

C. A. Dards is home from Japan. On his arrival he motored to Boothbay Harbor, Me., where his family had been spending the summer.

Hogewoning & Sons, whose American office is at 32 Broadway have just received a shipment of 400,000 Chinese narcissus bulbs and 500 cases of Dutch bulbs have also come in.

Watch the announcements of the New York plant auction establishments in this issue. These opening sales will to a considerable extent test out the attitude of the buying public on the question of bulbs and fall planting material generally. We have seen some of the stock already arrived and it is exceptionally good.

Johnson & Millang, Inc., are now established in their large and commodious quarters in the Coogan Building and the opening plant auction sale will be held on Tuesday, Sept. 12th, and sales will be held every Tuesday and Friday thereafter at 9 A. M. The first sale will consist of a large assortment of decorative plant stock, together with a heavy consignment of Holland-grown and other bulbs. This source of supply should prove a great convenience for the uptown florist trade. Charles C. Johnson has years of thorough experience in the auction business and Charles Millang is well known among the florist trade. Miss Marie Kneudell will have charge of the office affairs of this firm.

BOSTON.

Mrs. Fred. R. Mathison has sold out her greenhouse property and business to the Janiten & Wollrath Company.

The annual exhibition of dahlias will take place at Horticultural Hall on Saturday and Sunday, September 9 and 10. The many new and improved varieties will be shown and this exhibition will be of more than usual interest. There will be also exhibits of seasonable fruits and hardy herbaceous flowers. The exhibition will be open on Saturday from 12 to 6 and Sunday from 1 to 6 o'clock.

The school gardens exhibition at Horticultural Hall, last Saturday, was an eye-opener. It was the finest and largest school garden exhibition in the history of the movement to turn the attention of Massachusetts school children from the dust of the streets to the rich soil of their own profit-making gardens. The children who have taken up gardening so earnestly in nearly all lines equalled the exhibits of professional gardeners. The Huntington and Copeland school districts of Brockton, which captured three of the four major prizes in the State competition last year, were represented by two big truckloads of flowers, vegetables and canned vegetables. Their cold-packed canned vegetables and fruit exhibits numbered 133 cans. Probably the finest personal exhibit was that of Miss Hermine A. Schulz of Roslindale, who last year received the distinction of being the "only girl who could beat Brockton." She had a whole table reserved for her exhibit of 37 varieties of garden plants and vegetables, all grown on a plot of land less than one-twentieth of an acre in size. In addition to caring for her garden Miss Schulz has canned 375 cans of vegetables and supervised the gardens of 150 children in Roslindale.

PITTSBURGH.

Miss Catherine Friel, manager of the Ray J. Daschbach Company, has just returned from a several weeks' sojourn at Atlantic City. Edward W. Blind, president, and Edward L. McGrath, manager of the Blind Floral Company, have returned from a trip through the east. Ralph W. Pinner spent several days in Youngstown, Ohio, in the interest of the landscape work of the A. W. Smith Co.

Ray J. Daschbach has resigned from the presidency and severed active connection with the Ray J. Daschbach Company, Inc., and hereafter expects to devote his entire time to the floral department of the Kaufmann Company, of which he is manager. Mr. Daschbach is succeeded by Orville Crisman, a young man new to the trade, but who, for the past fourteen years has been prominently identified with the accounting department of a hardware company. The floral fraternity welcomes Mr. Crisman to its ranks, wishing him the utmost success in his new undertaking, which has attended his past.

BASKETS BASKETS BASKETS

BUY YOUR FALL SUPPLIES NOW

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Don't Miss This Chance

Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

1129 Arch Street, PHILADELPHIA, PA.

Obituary

H. B. Denker.

Capt. H. B. Denker, father of Edwin Denker, well-known St. Charles, Mo., florist, and former mayor of St. Charles, died last week at the age of 77 years. Mr. Denker had been sick a long time. Many friends in the trade sent sympathy to the bereaved family. The home was completely filled with flowers.

Mrs. Frederick Heeremans.

Mrs. Frederick Heeremans, 33 years of age, died on the morning of Sept. 4 at her Elmcourt residence in Lenox, after an illness of four years. Mrs. Heeremans was born in Moosejaw, Can., daughter of Mr. and Mrs. W. L. Weston. She was educated in the public schools in Lee and was united in marriage to Frederick Heeremans, superintendent of the Elmcourt estate in Lenox, 11 years ago. She is survived by her husband and two children, William H. and Edith, and her parents, also four sisters. The funeral was held from the Trinity church in Lenox on Wednesday. Mr. Heeremans and the family have the sympathy of a very wide circle of friends, who attested their friendship and respect for the departed by attending the funeral in large numbers.

ST. LOUIS.

Raymond Welty, late in the employ of C. A. Kuehn is now with the St. Louis Wholesale Cut Flower Co.

Adolph Steidel has left the employ at Vandevort's floral department and joined the force of F. H. Weber. Johnnie Burke has taken the position vacated by Mr. Steidel.

Adolph Jaenicke has left the Howard estate as gardener and with his family has gone to Colorado Springs, Col., to enter the employ of the Penrose estate as head gardener.

Fred Strohmeyer, manager for the



New Dahlia Albert Manda.

Ayers Floral Co., was married last week to Miss Ella Weber. Miss Weber is a niece of Fred C. Weber and formerly in his employ at the time Mr. Strohmeyer was also employed there.

NEWS NOTES.

Post Falls, Idaho—W. S. VanDoren has sold his greenhouses to F. R. McCormick.

Newport, R. I.—Mr. and Mrs. James McLeish are preparing to celebrate their fiftieth wedding anniversary on November 12, 1916.

Philadelphia—The 1 P. M. closing on Saturdays has been extended by the Pennock-Meehan Co. to Sept. 9th. This applies also to the 5 P. M. daily rule of July and August.

John Merkel, of Mentor, Ohio, and Miss Kate Kunze, of Brooklyn, N. Y., were married in Brooklyn on September 6.

NEW CORPORATIONS.

Seattle, Wash.—Puget Sound Bulb Nurseries, capital stock \$30,000.

New York, N. Y.—American Seed Tape Co., 134 West 13th street, capital stock \$500,000. Incorporators: G. A. Mead, A. J. Case and H. E. Monahan.

Des Moines, Ia.—Pratt Greenhouse Co., capital stock \$25,000. Incorporators: L. W. and B. E. Pratt and A. E. Minetor.

BUSINESS TROUBLES.

Clyde, O.—Clyde Floral Co., liabilities \$1,981.25.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. BOSTON

Telephone Main 55.

LET US SUGGEST to you during the
hot months of the year

BEAUTIES

\$1.00—\$3.00 dozen

Grown from young plants for summer blooming, is an item we can recommend to you. The flowers are of a fair size, good color and clean foliage. If you cannot get them elsewhere, try us.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964—1965

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E.G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 3860 Madison Square

WOODROW & MARKETOS

WHOLESALE

Plantmen and Florists

37 and 39 West 28th St., NEW YORK



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

226 DEVONSHIRE ST.,

BOSTON, MASS.

Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON September 7		ST. LOUIS September 4		PHILA. September 4	
Roses						
Am. Beauty, Special	20.00	to 25.00	15.00	to 25.00	20.00	to 25.00
" " Fancy and Extra	15.00	to 20.00	8.00	to 10.00	10.00	to 15.00
" " No. 1 and culls	3.00	to 8.00	1.00	to 5.00	4.00	to 8.00
Russell, Hadley	2.00	to 10.00	5.00	to 10.00	2.00	to 12.00
Killarney, Hillingdon, Ward, Extra	4.00	to 6.00	5.00	to 8.00	6.00	to 8.00
" " Ordinary	1.00	to 2.00	3.00	to 4.00	2.00	to 4.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 6.00	.....	to .....	.....	to
" " Ordinary	1.00	to 2.00	.....	to .....	.....	to
Ophelia, Mock, Sunburst, Euler, Extra	3.00	to 8.00	5.00	to 8.00	6.00	to 8.00
" " Ordinary	1.00	to 2.00	2.00	to 3.00	2.00	to 4.00
Carnations	.....	to	2.00	to 3.00	1.00	to 3.00
Cattleyas	40.00	to 75.00	30.00	to 40.00	75.00	to 100.00
Dendrobium formosum	.....	to 30.00	.....	to	50.00	to 60.00
Lilies	6.00	to 10.00	10.00	to 12.50	8.00	to 10.00
Lily of the Valley	4.00	to 6.00	4.00	to 5.00	4.00	to 6.00
Snappdragon	.50	to 1.00	3.00	to 4.00	.50	to 1.00
Gladioli	1.00	to 3.00	3.00	to 4.00	2.00	to 4.00
Asters	1.00	to 4.00	.....	to	1.00	to 4.00
Dahlias	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00
Cardenias	20.00	to 25.00	.....	to .....	.....	to
Adiantum	.....	to 1.00	1.00	to 1.25	.75	to 1.00
Smilax	10.00	to 15.00	12.00	to 15.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	20.00	to 25.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

J.A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

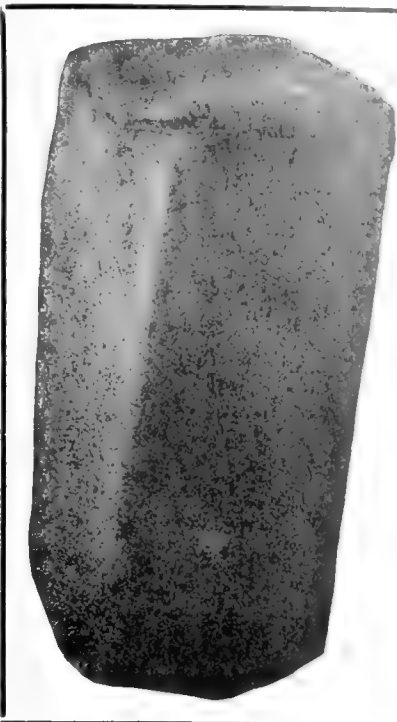
In writing to Advertisers kindly mention Horticulture

Flower Market Reports

The tension of the past BOSTON fortnight is gradually letting down and prices show a tendency to moderate somewhat, although there is no decided break and the market is not yet over-weighted with anything. Gladioli are not in as heavy receipt as they were, but there are enough and to spare. Asters are greatly improved and there are some elegant pinks, purples and whites to be seen and these bring a fitting price. We see no carnations as yet. Roses are good, American Beauty included. A good quality of fine candytuft is being received and this finds a welcome in the scarcity of other small white flowers. Dahlias are not making any impression thus far, although it is not far now from the height of the dahlia season.

The trade situation is BUFFALO uneven, some days hustling ones with no stock and others with plenty of stock but no business. Asters of real good quality continue scarce, also gladioli. Roses have been quite abundant at times, but the quality is only ordinary. Some good Maryland, Ophelia and Sunburst are beginning to come in this week. These being from new stock the blooms are small, but they are meeting a fair demand. Beauties are selling rapidly, also lilies.

With cooler weather has CHICAGO come a slight relaxation of the grip summer has had on the Chicago market. A few more flowers and a few less calls for them have temporarily relieved the strain, but with a sudden local demand conditions would be as before. All outside flowers, except asters and gladioli, are gone, unless it be a few tube roses and an occasional bunch of water lilies. Outside calls for flowers continue good and shipping trade is far in advance of local. There is a decided change in the quantity of American Beauties being cut. Stock includes enough long ones for the demand and a good supply of mediums, which are always still more sought for. Asters cover the whole range in quality, with the exception of fancy which can hardly be said to exist, but there are some very good seconds, though by far the greater part of the stock is small and much is inferior. Gladioli are plentiful and in these also stock varies much. Roses are coming with some improvement in length of stem. Cattleyas are very scarce. Lily of the valley are few, but demand is light. Carnations are a little longer in stem, but even so are counted as very short. A few chrys-anthemums are being cut.



Now is the time to get your supply of

Sphagnum Moss

The Best way to have it is in Burlapped bales, No Loss, No Waste.

The Best Value is in the ten Barrel Bales.

Single 10 bbl. Bales, each \$4.00
Special in ten 10 bbl. Bale lots, each \$3.25

Closing hour during September, 5 P. M.
Saturday, September 9, 1 P. M.

S. S. PENNOCK-MEEHAN CO.
THE Wholesale Florists of PHILADELPHIA

NEW YORK 117 W. 28th St.
BALTIMORE Franklin & St. Paul Sts.
PHILADELPHIA 1608-1620 Ludlow St.
WASHINGTON 1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI September 4		CHICAGO September 4		BUFFALO September 4		PITTSBURG September 4	
Roses								
Am. Beauty, Special.....	20.00	to 25.00	20.00	to 29.00	20.00	to 25.00	20.00	to 25.00
" Fancy and Extra.....	10.00	to 15.00	10.00	to 20.00	12.00	to 15.00	15.00	to 20.00
" No. 1 and culls.....	6.00	to 10.00	5.00	to 12.00	4.00	to 10.00	2.00	to 8.00
Russell, Hadley.....	1.00	to 10.00	5.00	to 20.00	.....	to .....	.....	to
Killarney, Hillingdon, Ward, Extra	4.00	to 6.00	6.00	to 8.00	6.00	to 8.00	4.00	to 8.00
Ord.....	3.00	to 4.00	2.00	to 4.00	3.00	to 4.00	.....	to
Arenburg, Radiance, Taft, Key, Ex.	4.00	to 6.00	.....	to 4.00	8.00	to 10.00	.....	to
Ord.....	3.00	to 4.00	.....	to	3.00	to 4.00	.....	to
Ophelia, Mock, Sunburst, Euler, Ex.	4.00	to 6.00	5.00	to 8.00	6.00	to 8.00	2.00	to 8.00
Ord.....	3.00	to 4.00	2.00	to 4.00	3.00	to 5.00	.....	to
Carnations.....	1.00	to 2.00	2.75	to 1.00	.....	to	1.00	to 2.00
Cattleyas.....	50.00	to 60.00	50.00	to 75.00	50.00	to 60.00	.....	to
Dendrobium formosum.....	.....	to .....	.....	to .....	.....	to .....	.....	to
Lilies.....	8.00	to 10.00	10.00	to 12.00	8.00	to 12.00	8.00	to 10.00
Lily of the Valley.....	5.00	to 6.00	3.00	to 6.00	4.00	to 6.00	5.00	to 6.00
Snapdragon.....	.....	to .....	.....	to	3.00	to 6.00	.....	to
Gladioli.....	4.00	to 6.00	3.00	to 6.00	2.00	to 4.00	3.00	to 6.00
Asters.....	2.00	to 4.00	1.00	to 6.00	1.00	to 3.00	.....	to 2.00
Dahlias.....	.....	to .....	.....	to	1.00	to 2.00	.....	to
Gardenias.....	.....	to .....	.....	to .....	.....	to .....	.....	to
Adiantum.....	.....	to 1.00	.....	to 1.00	.50	to 1.00	.....	to 1.25
Smilax.....	15.00	to 20.00	15.00	to 20.00	.....	to 15.00	.....	to 15.00
Asparagus Plu. & Spreng. (Inc. P.S.)	25.00	to 35.00	25.00	to 50.00	.....	to 35.00	30.00	to 50.00

CINCINNATI practically all receipts sell readily. Roses are more plentiful than they were and include some excellent Sunburst, Ward, Ophelia and Hadley. American Beauties again are coming in. The aster cut is better and heavier than it was. Gladioli are plentiful but lilies have become somewhat scarce. Plenty of cosmos and dahlias. All greens except smilax are plentiful.

Conditions now seem NEW YORK to point to a weak market with falling values succeeding a rather unexpected spurt in demand and stringency in supply with enhanced prices which followed on the heels of the languid situation recorded in our report of last week. The New York market is the most sensitive and mercurial in existence and prices of flowers bound upwards or rebound downwards on the slightest provocation, the fluctuation in all cases going

to extremes far beyond those reached in other markets under similar exigencies. Of the various crops most predominating at the present moment gladioli fill the largest space. There are many of excellent quality but by far the greater part are inferior—actually the worst we have ever seen anywhere. Dahlias are also numerous and of widely varying quality. Roses are rapidly increasing in daily cut and impress us as of very creditable grade generally considering the date. Lilies are not overabundant and bring excellent prices. Hydrangeas, rudbeckias, marigolds and other outdoor stuff in great variety is being received and finds a better market than in previous seasons.

There has not PHILADELPHIA been much change in the general situation here since our last report. Stock in general has con- (Continued on page 358)

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephones: 2206, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street

Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5336, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE (605) MADISON SQ., NEW YORK

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7352 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothea, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.
Tel. (1583) Mad Sq. 119 W. 28 St., New York

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS
38 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 2870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.

Wholesale Commission
READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE 2281 FARRAGUT 131 West 28th St., NEW YORK CITY

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS
GARDENIAS, DAISIES, ROSES, CARNATIONS

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 769

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 2483 Farragut

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones 1664 } Madison Square
1665 }

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending Sept. 2 1916		First Half of Week beginning Sept. 4 1916	
American Beauty, Special	15.00	to 25.00	15.00	to 25.00
" " Fancy and Extra	10.00	to 15.00	10.00	to 15.00
" " No. 1 and culls.	2.00	to 8.00	3.00	to 8.00
Russell, Hadley	2.00	to 8.00	2.00	to 8.00
Killarney, Hillingdon, Ward, Extra	3.00	to 6.00	3.00	to 6.00
" " Ordinary	1.00	to 2.00	1.00	to 2.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 6.00	4.00	to 8.00
" " Ordinary	1.00	to 2.00	1.00	to 2.00
Ophelia, Mock, Sunburst, Euler, Extra	4.00	to 8.00	4.00	to 8.00
" " Ordinary	1.00	to 2.00	1.00	to 2.00
Carnations .....	.50	to 1.00	.50	to 1.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for doing
our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK

Phones 2036, 2037, 558 Farragut

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797-798-799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality.

114 West 28th Street
NEW YORK

**HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS**

55-57 West 26th Street

Telephones, 13—8510 Madison Square

MAURICE L. GLASS, Treasurer

Consignments Solicited

Flower Market Reports

(Continued from page 357)

tinued rather on the scarce side and cleaned up pretty well even for the poorer grades which are still much in evidence. Asters are in good demand especially for the better grades but even now these are not what they have been in former years. Much of the stock coming in is away below par. It has certainly been a very poor season for asters. The dahlia is now to be seen around—good flowers but short stemmed. They are going better than usual on account of the scarcity of good asters. So "its an ill wind that blows nobody good." I suppose cut turnips would sell just now if dyed up a little. Roses are in fair demand and supply not heavy. Russell is still the leader. Some of the (so-called) Prima Donna are to be seen and show up pretty well. Ophelia is also among the good ones. Beauties are in rather better demand. Lily of the valley very scarce. The lily crop seems to be a little off temporarily and prices have advanced. Little change is apparent in the cattleya situation and good flowers are still bringing a dollar each. First cuts of the new carnation crop are arriving in limited quantity—quality fair but short stemmed. Plenty of hydrangeas and tritomas come in handy for decorative work.

There is plenty of
ST. LOUIS stock to be had at any time in this market but as yet it is of poor quality. Roses do not bring much owing to poor quality but they are in plenty. Cosmos is coming now also dahlias. Asters sell better than any other flower. Hydrangeas had quite a call. Tuberose stalks sell well but the demand can not use all that came in. Gladioli are still a good seller. Lily of the valley scarce but lilies are in plenty.

Business here is at
WASHINGTON a very low ebb, and although there are few flowers coming, it cannot be said that there is a shortage in any line. Gladioli, asters and dahlias are the most talked of flowers at this time, the first-named because of its having been more plentiful, of a better quality and more popular this season than ever before; asters because of a crop failure, and dahlias because of the scare given their growers by the unstable weather which prevailed earlier in the season. Lilies sold up well last week. Lily of the valley is only to be had in limited quantities. There are no orchids offered or wanted. American Beauty roses and carnations of the new crops are beginning to come into the local market.

CATALOGUES RECEIVED.

Peter Henderson & Co., New York, Autumn Wholesale Catalogue of Seeds, Bulbs and Plants for Florists and Market Gardeners. 68 pages. Also general Autumn Catalogue in a very attractive cover in colors.

Excellent forethought was displayed by J. Bolgiano & Son when they pur-

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A.M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Sept. 2 1916		First Half of Week beginning Sept. 4 1916	
Cattleyas	20.00	to 100.00	25.00	to 100.00
Dendrobium formosum	20.00	to 50.00	20.00	to 50.00
Lilies	4.00	to 8.00	4.00	to 10.00
Lily of the Valley	2.00	to 6.00	2.00	to 6.00
Snappdragon	.50	to 1.00	.50	to 1.00
Gladioli	.50	to 2.00	.50	to 2.00
Asters	.25	to 4.00	.50	to 6.00
Dahlias	.50	to 2.00	.50	to 2.00
Gardenias	10.00	to 25.00	10.00	to 25.00
Adiantum	.85	to .95	.85	to .95
Smilax	8.00	to 15.00	8.00	to 15.00
Asparagus Plumosus, & Spreng (100 bunches)	10.00	to 25.00	10.00	to 25.00

chased, early in 1916, their entire requirement of paper for the various issues of their catalogues during the years 1916 and 1917. This consisted of several carloads of paper and amounted to a considerable outlay of money, but they state that they have already realized a saving of over 100 per cent., with the price of paper still advancing almost daily.



Gladiolus Pink Perfection.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK
Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of

Good Stock Solicited

PERCY W. RICHTER, Mgr., NEW YORK
111 W. 28th Street

HERMAN WEISS

Wholesale Florist

Experienced, Progressive and can handle shipments of growers' product satisfactorily.

106 West 28th St., NEW YORK
Tel. Farragut 3066.

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street
167 & 3058 Farragut NEW YORK

Established 1888 Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists

110 West 28th St., New York

We Solicit Consignments of New England Grown Novelties.

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square
BOSTON, MASS.

Telephone 2618-2617-2618, Main.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACACIAS

Stuart Low Co., Enfield, Eng.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

ADIANTUM FARLEYENSE GLORIOSA

Henry A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

A. L. Miller, Jamaica, N. Y.
Asparagus Plumosus.
For page see List of Advertisers.
Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

AUCTION SALES

The MacNiff Horticultural Co.,
New York City.
For page see List of Advertisers.

Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.
August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price list.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

BEGONIAS.

Mrs. J. A. Peterson (New), 2½ in. pots,
\$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda,
N. Y.

"King Ideal" Boiler.
For page see List of Advertisers.

Hitchings & Co., New York City.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made.
Write for list. HOLTON & HUNKEL CO.,
Milwaukee, Wis.

BOX TREES

BOX TREES—Standards, Pyramids and
Bush. Price list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

BOXWOOD

August Rolker & Sons, New York City.
For page see List of Advertisers.

BULBS AND TUBERS

Hogewoning & Sons, New York City, and
Rynsburg, Holland.
Extra Selected Dutch-Grown Bulbs for
Fall Planting.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Hyacinth, Narcissus and Freesia Refracta
Alba Bulbs.
For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
French and Dutch Bulbs.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
Lily Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Rainbow and Purity Freesias.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

The MacNiff Horticultural Co.,
Holland Grown Bulbs.
New York City.

For page see List of Advertisers.

Henry F. Mitchell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.

For page see List of Advertisers.

Fottler, Flske, Rawson Co., Boston, Mass.
Mr. B. Progressive, Florist,
Everywhere, U. S. A.

Dear Sir: It will be a decided advantage
as regards prices and quality to place your
order with us.

Soliciting your order through this ad
cuts down the overhead selling expenses
and you positively get lower prices and
better quality. Our terms are liberal and
are a guarantee that you get a square
deal, all bulbs guaranteed true to name or
money refunded.

Write us and upon request we will mail
you our booklet giving prices f. o. b. New
York or Chicago, and we also cheerfully
furnish you with any information that
may be desired. Those of our friends who
will mail us a list of their requirements
will find it has paid them to do so.

Awaiting to hear from you at your pleas-
ure, we remain,
Yours very truly,

WESTERBEEK & KLYNN, 14
STONE ST., NEW YORK, N. Y.

BULBS AND TUBERS—Continued

Anglin & Walsh Co., Williamsbridge, N. Y.
Freesia Purity Bulbs.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. J. Goddard, Framingham Centre, Mass.
Crimson Carnation Doris.

150 Mrs. Ward, 500 Winsor, 200 Pink En-
chantress, 1000 White Enchantress, 100 Per-
fection, 200 Lawson. Cash. CHAS. H.
GREEN, Spencer, Mass.

CARNATION STAPLES

Split carnations quickly, easily and
cheaply mended. Pillsbury's Carnation
Staple, 1000 for 35c.; 5000 for \$1.00 post-
paid. I. L. PILLSBURY, Galesburg, Ill.

CHRISTMAS PEPPERS

A. L. Miller, Jamaica, N. Y.
For page see List of Advertisers.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
Pompon Chrysanthemums.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Gattman & Raynor, Inc., New York City.
Emma, a Garza Anemone, Double
Pompon, pale pink.

CINERARIAS

2½-inch pots
Half dwarf, selected strains, best colors:
\$3.50 per 100, \$30.00 per 1000; 3-inch, \$5.00
per 100, \$40.00 per 1000.

Write today for our Plant Bulletin and
Bulb List, containing everything you need.

S. S. PENNOCK-MEEHAN CO.,
1608-1620 Ludlow St., Philadelphia, Pa.

DAHLIAS

ORDERS BOOKED ANYTIME

For Fall or Spring delivery. Wholesale and
Retail. Send for Catalogue. NORTHBORO
DAHLIA & GLADIOLUS GARDENS, J. L.
Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest,
Best. New color, new form and new habit
of growth. Big stock of best cut-flower
varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

For List of Advertisers See Page 339

EUONYMUS RADICANS

Euonymus Radicans. Several thousand, from rooted cuttings to sturdy plants four and five years old. This is a large-leaf, quick growing variety of *R. Radicans*. It originated in this town and is extremely desirable. Price and sample plants on application. F. E. PALMER, INC., Brookline, Mass.

FERNS

A. M. Davenport, Watertown, Mass.

Ferns in Flats.

For page see List of Advertisers.

R. Vincent, Jr., & Sons Co., White Marsh, Maryland.
Boston Ferns.

For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.

FLORISTS' PLANT STOCK

Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Weich Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FREESIAs

August Rolker & Sons, New York City.
Rainbow and Purity Freesias.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums S. A. Nutt, rooted cuttings, \$8.00 per 1,000; 2 1/4 in., \$15.00 per 1,000. First class stock. Cash. FRANK LEITH & SON, Haverhill, Mass.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

Glass 6 x 8, 8 x 10, 10 x 12, 10 x 14, \$1.65 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL
King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset, Boston.
Pecky Cypress.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

John C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Hitchings & Co., New York City.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

Metropolitan Material Co., Brooklyn, N. Y.

A. T. Stearns Lumber Co., Boston, Mass.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

Pailsades Nurseries, Inc., Sparkill, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

HORTICULTURAL SUNDRIES FROM ENGLAND

G. H. Richards.
234 Borough, London, S. E., England.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co., Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset, Mass.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

INSECTICIDES

Hammond's Paint & Slug Shot Works, Beacon, N. Y.
Hammond's Thrip Juice No. 2.
For page see List of Advertisers.

INSECTICIDES—Continued

Aphine Manufacturing Co., Madison, N. J.
Aphine.

For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.

For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.

For page see List of Advertisers.

Whys and Wherefores of Fall Spraying.
B. G. Pratt Co., New York City.

IRIS

John Lewis Childs, Flowerfield, N. Y.
German Iris.

For page see List of Advertisers.

Pallida Dalmatica, the largest and best German Iris. Beautiful Lavender. Extra fine divisions, \$10.00 per 100; smaller size, \$8.00. Cash, please. BROOKLAND GARDENS, Woburn, Mass.

LILY BULBS

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Lillium Harrisli Bulbs.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hohmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

LOPEZIAS

Lopezia racemosa, a very neat Xmas plant covered with thousands of red flowers from November until May. Out of 2-in. 3c., 4-in. very bushy, 7c.

EMIL BAUDISCH,

753 Hamilton Ave., North Bergen, N. J.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Hattboro, Pa.
For page see List of Advertisers.

NIKOTEEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

R. & J. Farquhar & Co., Boston, Mass.
Trees.
For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

NURSERY STOCK—Continued

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Stuart Low Co., Enfield, Eng.

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Paul de Nave, Fall River, Mass.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Stuart Low Co., Enfield, Eng.

PALMS**SINGLE PLANTS**

Belmoreana, 4-inch.....\$40.00 per 100
" 5-inch.....50c. to \$1.00 each
" 6-inch.....\$1.25 to \$1.50 each
Forsteriana, 2½-inch.....\$20.00 per 100
" 4-inch.....\$40.00 to \$45.00 per 100
" 5-inch.....\$1.00 to \$1.25 each
" 6-inch.....\$1.25 to \$2.00 each
" 7-inch.....\$1.50 to \$2.50 each

Made up plants. Prices on application.

PHOENIX ROEBELENI

4-inch.....\$6.00 per 100
5-inch.....\$1.25 to \$1.50 each
6-inch.....\$2.00 to \$2.50 each
7-inch.....\$2.50 to \$3.50 each
Write today for our Plant Bulletin and
Bulb List, containing everything you need.

S. S. PENNOCK-MEEHAN CO.,

1608-1620 Ludlow St., Philadelphia, Pa.

PEUNIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. **C. BETSCHER,**
Canal Dover, O.

Get the rare ones, true stock, **Le Cygne**,
Solange, **Tourangele**, **Mme. Jules Dessert**,
Mons. Martin Cahuzac, **La France**, **Rosa**
Bonheur, **Mignon**, **Therese**, **Germain Bigot**,
Primevere, **La Fayette**, **Eugene Verdier**.
Send for list. **D. W. C. RUFF**, Buena
Vista Gardens, St. Paul, Minn.

THE WORLD'S BEST PEONIES—Fifteen
fine named Peonies for \$2.50, or 25 for \$5.00,
all different and truly labeled, a chance to
obtain a fine collection at half price, com-
prising such varieties as **Festiva maxima**,
Delachet, **Achille**, **Lady L. Bramwell**,
Couronne d'Or, **Prolifica**, **Tricolor**, **Louis**
Van Houtte, and various other fine sorts.
With any order of above for \$5.00 I will in-
clude one plant of **Baroness Schroeder** free.
I have the largest stock in America of **Lady**
Alexandra Duff (absolutely true) and many
other fine varieties. Send for catalogue.
W. L. GUMM, Peony Specialist, Reming-
ton, Ind.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises.
H. D. SEELE & SONS, Elkhart, Ind.

POINSETTIAS.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

PRIMULAS

Fred H. Lemon & Co., Richmond, Ind.
Primula Malacoides Rosen.
For page see List of Advertisers.

Primula Malacoides, extra strong plants
ready to shift, \$2.50 per hundred. Cash
with order. **S. J. TOHER & SONS**, 58
Concord St., Providence, R. I.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

A. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

ROSE STAKES

The Carnation Support Co.,
Connersville, Ind.
For page see List of Advertisers.

SASH

Standard Hot Bed Sash with cross bar,
80c. each; lots of 25 and over, 75c. each.
Satisfaction guaranteed or money refunded.
Glass 6 x 8, 8 x 10, 10 x 12 or 10 x 14, \$1.65
per box of 50 sq. ft. **C. N. ROBINSON &**
BRO., Dept. 29, Baltimore, Md.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Gigantic Cyclamen.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
Mignonette.
For page see List of Advertisers.

SEEDS—Continued

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Lochner & Co., New York City.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Mignonette, Improved Eclipse.
For page see List of Advertisers.

Roman J. Irwin, New York City.
New Crop Florists' Seeds.
For page see List of Advertisers.

Stuart Low Co., Enfield, Eng.
Cyclamen Seed.

Fottler, Fiske, Rawson Co., Boston, Mass.
Seeds for the Florist.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGNER
& HURRELL, Summit, N. J.

SWEET PEA SEED

Arthur T. Boddington Co., New York City.
Winter Flowering Spencer Sweet Peas.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
For page see List of Advertisers.

Stumpp & Walter Co., New York City.
Early Flowering Sweet Peas.
For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

For List of Advertisers See Page 339

WHOLESALE FLORISTS
Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 568-570 Washing-
ton St.
For page see List of Advertisers.

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 264-266
Randolph St.
For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
For page see List of Advertisers.

Hentz & Nash, 55 and 57 W. 28th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Traendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

Woodrow & Marketos, 37 and 39 W. 28th St.
For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 53 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Guttman & Reynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunther Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

WHOLESALE FLORISTS
New York—Continued

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

George W. Crawbuck Co., 57 West 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ransstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 21 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.

New Offers In This Issue**AUCTION SALE OF BULBS AND FOLIAGE STOCK.**

Elliott Auction Co., New York City.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

LILY, HYACINTH AND NARCISSUS BULBS.

R. M. Ward & Co., New York City.
For page see List of Advertisers.

PLANTS, BULBS, ETC., AT AUCTION.

Johnson & Millang, Inc., New York City.
For page see List of Advertisers.

PRIVATE ESTATE AUCTION SALE OF GREENHOUSE PLANTS, PALMS, FERNS, ETC.

The MacNiff Horticultural Co.,
New York City.
For page see List of Advertisers.

SPHAGNUM MOSS.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

THE NUT-GROWER

The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

WANTS, FOR SALE, ETC.

Advertisements in this column
one cent a word. Initials count
as words. Cash with order. All
correspondence addressed "Care
HORTICULTURE" should be sent
to 147 Summer St., Boston.

HELP WANTED

WANTED: Clerk in Florist's store in
suburb of Boston. Must have had experi-
ence in selling, designing and decorating.
References required. Reply to "P. F."
care of HORTICULTURE.

WANTED: A young man with experi-
ence in landscape work, draughting, etc.,
as assistant in our landscape department.
BERTRAND H. FARK, Wyomissing Nur-
series Co., Wyomissing, Pa.

SITUATIONS WANTED

Gardener with first-class references, 30
years old, married, no children. Experi-
ence in and outdoors on well-known private
places. Address "R. S." care HORTICUL-
TURE, Boston.

Gardener and caretaker, married, no
family. Practical knowledge in routine;
greenhouse, vegetables, flowers and fruits.
Sober, active, industrious and trustworthy.
"X. Y. Z." HORTICULTURE Office.

FOR SALE

TO RENT, LEASE OR FOR SALE—Six
greenhouses and one acre land. For par-
ticulars write FREDERICK S. FOLL-
WELL, 24 Charles St., Pittsfield, Mass.

MISCELLANEOUS**WANTED.**

Two Barrels Sea Pebbles.
RANDALL'S FLOWER SHOP,
Worcester, Mass.

TREES, SHRUBS, VINES and HERBACEOUS PERENNIALS

By JOHN KIRKEGAARD

Formerly Assistant to Director of the Royal
Botanical Gardens, Copenhagen, Denmark.
Latterly Twenty Years in American For-
estry and Botanical Work.

Assisted by DR. H. T. FERNALD,
Professor of Entomology Massachusetts
Agricultural College and Entomologist,
Massachusetts Agricultural Experiment
Station.

and PROF. E. A. WHITE,
Professor of Floriculture, New York State
College of Agriculture at Cornell Univer-
sity.

A Great Book A Beautiful Book

A Comprehensive Book

A Practical Book By Practical Men

There Is No Other Book Like It

410 Pages. Planting Plans. Tabular De-
scription and Classification of Species. 59
Full-Page Illustrations in Tone. Authorita-
tive Articles on Many Subjects.

New Edition

BEAUTIFULLY BOUND IN CLOTH

Price only \$2.50 net. Mailing

Price, \$2.71. Money-Back

Guarantee

Order it from HORTICULTURE

147 Summer St., Boston

In writing to Advertisers kindly mention Horticulture

Some Important New or Little Known Trees and Shrubs

By JOHN DUNBAR, Botanist, S. A. F.

(Continued from page 316)

MALUS. There are no more beautiful small flowering trees in our parks and gardens in the spring time than the different crab-apples of North America and Asia. *Malus Arnoldiana* is a seedling that appeared from *M. floribunda* a few years since, in the Arnold Arboretum. It is shrubby in habit, and the branches are densely covered with large, showy, rosy pink flowers during the third week in May. *M. glaucescens* is a native American species first detected by myself growing spontaneously in one of the Rochester parks about sixteen years since. It is now found distributed from western New York to the Carolinas. It blooms during the later part of May and flowers about a week earlier than *M. coronarius* and the fruit ripens about a week earlier. The unopened flower buds are reddish pink and before opening have a seemingly inflated appearance; at this stage it is remarkably beautiful. The expanded, delightfully fragrant flowers are rosy pink. *Malus glaucescens* is one of the most beautiful North American small trees when in bloom. *M. Sargentii* is unique amongst crab-apples in its compact, shrubby, spreading, intricately branched habit and seldom exceeds six feet in height. It blossoms about the third week in May and the branches are covered with the pure white, large flowers, which looks very effective in the foreground of ornamental plantations. In the autumn the red fruits are very interesting. Although introduced from Japan by Dr. Sargent twenty-four years since, this crab-apple is still little known in American gardens and parks. *M. Zumi* is a small-sized tree with a somewhat thin branching habit and the leaves on the strong vegetative shoots are often deeply lobed. The flower buds are faintly tinged pink but are pure white when fully open. *M. Zumi* is a beautiful object when in bloom, covered with its large pure white blossoms. It was introduced by Dr. Sargent from Japan, twenty-four years since.

PRUNUS. Sargent's Cherry, *Prunus Sargentii*, is one of the most beautiful of Japanese cherries. It was introduced from Japan by Dr. Sargent twenty-four years since but at that time its botanical status was not understood. Mr. Wilson, studying Japanese Cherries, in Japan in 1914, found an avenue of this cherry, three miles

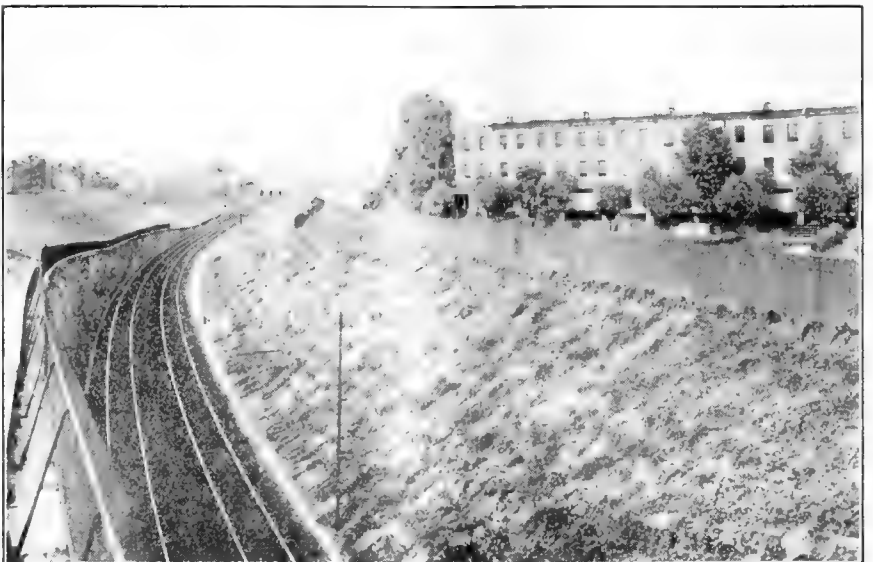
long, at Koganei near Tokio, and some of these trees were sixty to seventy-five feet tall. They were planted in 1735. The clusters of large, pink or rose-colored blossoms are produced in great abundance just before the leaves begin to unfold. It has handsome ample foliage and it should be widely planted in American gardens and parks. Our largest individuals are about eighteen feet tall. *Prunus mira* is a new species of peach found by Mr. Wilson in western Szechuan near Tachien-lu. Mr. Wilson regarded this as a remarkable discovery, as previous to this only one true species of peach was known. It has the peculiarity of having a perfectly smooth stone. The leaves are much narrower than in the common peach, deep glossy green and perfectly smooth. We have an individual nine to ten feet tall and fifteen feet in spread of branches but I am surprised and disappointed that it has not produced a single flower and the young wood passes the winter in perfect condition. We sincerely hope that it will flower next spring. This tardiness in flowering seems surprising as the common peach flowers so freely in a small state.

AESCULUS. During recent years a number of new species of buckeyes have been discovered in different parts of Texas, Missouri, Georgia and adjacent regions. All of them are excellent garden plants. We will call special attention to one form: *Aesculus discolor* var. *mollis*, (*Aesculus Austrina*),

is a shrub or sometimes a small tree and is distributed through southeastern Missouri and from Georgia to Texas. It flowered with us last spring for the first time. The scarlet flowers far surpass in brilliancy any of the cultivated red-flowering *Horsechestnuts* that are cultivated in parks and gardens. It is remarkable that it seems to be quite hardy so far north of the region of its natural geographical distribution.

EVODIA. The *Evodias* are entirely new features in northern gardens. All of the known *Evodias*, until these new species were found in western China, were warm greenhouse shrubs or small trees. We have three species but *E. Danielii* seems to be the hardiest and is the only one that has flowered with us; it has blossomed for several years. It has opposite, large, handsome, compound leaves, with seven to eleven leaflets which have a strongly pungent aromatic odor when bruised in the hands. The terminal, compound, corymbose, whitish flower clusters are borne on the branches and branchlets about the second week in August.

CRATAEGUS. The discovery and description of about one thousand species of American hawthorns and the raising from seed of most of them, and their cultivation, is surely one of the most extraordinary botanical and horticultural features of modern times, which has been accomplished at the Arnold Arboretum. Twenty-five years ago only fourteen species were



PLANTING A RAILROAD EMBANKMENT
At Wayne Junction, Philadelphia.

recognized by American botanists. The American hawthorns are widely distributed throughout eastern North America. They are particularly abundant along the streams and rivers that run into Lake Ontario. I have studied and collected them throughout western New York, and Ontario, Canada, from London to Ottawa and down the St. Lawrence River as far as Prescott. It is quite remarkable that this vast array of species, in one genus, all come true to seed. Observation has shown that the progeny of the type species comes absolutely true to the parents. When we consider that *Crataegus* is close to some genera like

BAILEY'S NEW STANDARD Cyclopedia of Horticulture

Six large quarto volumes.
More than 3,600 pages. 24
exquisite full-page color
plates. 96 full-page sepia
halftones and more than
4,000 text engravings. 500
collaborators. Approx-
imately 4,000 genera, 15,000
species and 40,000 plant
names.

The new Standard Cyclopedia of Horticulture has been freshly written in the light of the most recent research and experience. It is not merely an ordinary revision or corrected edition of the old Cyclopedia, but it is a new work from start to finish with enlarged boundaries geographically and practically; it supersedes and displaces all previous editions or reprints of every kind whatsoever. It is both an Encyclopedia and a Manual, for with the aid of its Synopsis and Key, amateur and professional alike may quickly identify any plant, shrub or fruit contained within the set, and then receive expert instructions for its cultivation. Price \$6.00 per volume. Four volumes have now been issued and the others will follow in succession. Order from

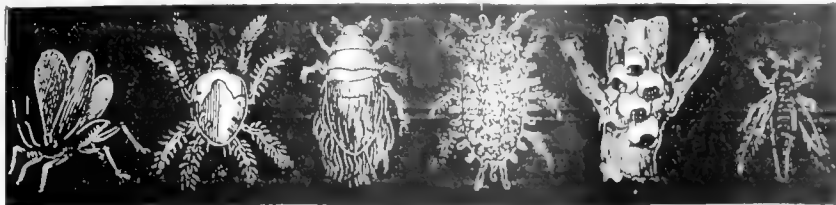
HORTICULTURE PUBLISHING CO.

147 Summer Street, Boston, Mass.

Hammond's Thrip Juice No. 2

REGISTERED

A Contact Insecticide, Useful and Reliable, Used for 30 Years in Green-houses, and on Plants, Grape Vines, Trees and Shrubs



Some common Sucking Insects, magnified.

HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.

apples, pears, plums, and Amelancheiers, that hybridize freely, this phenomenon appears quite remarkable. They are excellent subjects for the planting of gardens and private estates. They are very showy in bloom in spring and early summer, and the showy fruits, in varying tints of scarlet, crimson and vermilion red which extends throughout the different species, from August to early winter, make them splendid objects for landscape adornment. They are exceedingly virile and hardy.

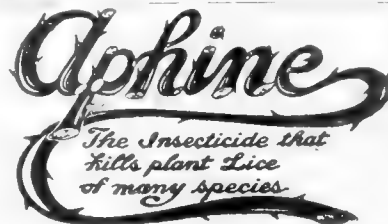
I was asked by a prominent American landscape gardener, about two months since, if I would name a dozen showy species that would show representative characters in habits, flowers, and fruits, for landscape planting. I confess that this is a hard problem with such a vast number of species and many of them of splendid merits. I, however, submit twelve species that are very ornamental and vary in habit from trees of considerable size to arborescent shrubs, and give a fine display of fruits from August to early winter. I do not say that the following are the best but that they are highly ornamental: *Crataegus Arnoldiana*, *C. Arkansana*, *C. Dunbarii*, *C. Durobrivensis*, *C. Ellwangeriana*, *C. fecunda*, *C. gloriosa*, *C. Jackii*, *C. Laneyi*, *C. nitida*, *C. opulens*, and *C. submollis*.

DAVIDIA. *Davidia involucrata* is a remarkably handsome flowering tree from north-western Szechuan and has received the common name of Dove Tree. It is described as having two large, unequal, creamy white bracts proceeding from the base of the flowers, which are remarkably conspicuous at a long distance. We have one individual over ten feet high which has not flowered with us yet. I do not think it has flowered in cultivation except in France and in England. We are extremely anxious to see it flower. I am of the opinion that it resents pruning. We have lost a few plants, we believe, on account of this. Removing suckers or pruning to one stem as we treat an elm, oak, or maple, we think it resents. We shall leave it alone hereafter and allow it to grow in its natural manner.

PATENTS GRANTED.

1,196,088. Process for Killing or Checking the Growth of Weeds. Charles Franklin Eckart, Olaa, Hawaii.

1,196,312. Flower-Holder. William R. Stuck, Oakland, Cal.



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products **FUNGINE**, **VERMINE** and **SCALINE** will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on **APHINE** and **NIKOTIANA**.

Aphine Manufacturing Co.
MADISON, N. J.



Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON



NIKOTEEN

For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer For It.

NICOTINE MFG. CO.
ST. LOUIS

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**COLLECTING DEBTS BARRED BY
BANKRUPTCY PROCEEDINGS**

This bears upon the legal effect which bankruptcy proceedings have on a man's debts, particularly upon the question of collecting an old debt after the debtor has gone through bankruptcy:

Baltimore, Md.

We have a customer who, before he got mixed up in some mining deals, did a large business and used to buy large quantities of goods from us. For several years he paid promptly, usually discounting. A year ago he became involved and finally went into bankruptcy, owing us about \$1,500. It was a bad failure, we only getting about 13 per cent. His bankruptcy case is closed and he has been doing business again in his own name for several months. When he again went into business he came to us and asked for credit. Naturally we were not very desirous of extending it to him, after having been mulcted by that large sum, but the man had good backing and some chance of inheriting a large sum of money, so we agreed to give him a small line, provided he would agree to pay off the balance of the old account. It was his own proposition to do this, and he agreed to do it before two witnesses besides myself. The promise was to do it within six months, and on the strength of this we extended him the credit. The six months expired last week and we made demand on him for the money. He paid no attention, and after repeated letters he came to our office and said that when he made the promise he did not know that his bankruptcy excused him from the debt. He said he could not pay and had no intention of paying, as his bankruptcy closed everything up. Please advise whether we have any chance of getting anything.

E. K. MULLENBOW & BRO.

You have an exceedingly good chance, if the man has anything. If he has nothing now, but is likely to have, I should get judgment against him and wait till something comes into his hands.

A bankrupt can always make himself responsible for his old debts, after he has been discharged in bankruptcy, if he chooses to. If he does choose to, he is just as liable as if he had never gone through bankruptcy.

Ordinarily bankruptcy proceedings operate to relieve a bankrupt debtor from liability from all debts which are provable against him, even though they were not proved against him dur-

ing the bankruptcy proceedings. It is the place of the creditors of a bankrupt to come forward and file their claims. If they fail to do it, they are out.

Bankruptcy proceedings do not wipe off all classes of debts, however. For example, an obligation to pay alimony; or the lien of a recorded judgment, or attachment, or mechanic's lien, or mortgage; or a vendor's lien; or debts incurred by fraud; or liability to pay somebody damages. Debts of these classes are left alive by bankruptcy and can be collected just the same after as before. But the ordinary commercial debt such as money due for goods sold and delivered, is wiped out, whether the creditor comes forward and puts in a claim or not.

But it can be revived again if the debtor wants to revive it. Bankruptcy proceedings don't extinguish the debt; I was a little inaccurate when I said it was "wiped out." Bankruptcy merely prevents a creditor from collecting the debt. The debt still exists as a moral obligation. It is the same with a debt outlawed by time—it is not dead, but sleepeth, and it can be revived. The creditor is simply deprived of his remedy.

How can such a debt be revived? By a new promise. The promise which this Baltimore correspondent's customer gave is precisely the sort of promise that revives an old debt. Although in this particular case it did have consideration—the agreement to grant new credit—it needed no new consideration at all. The existence of the old debt as a moral obligation supplied the consideration.

The promise need only be express, positive and unconditional. "I guess I'll pay that off," is not enough. "I know I owe it," is not enough. "I'll fix you up some time," is not enough. "I'll pay that old debt as soon as I'm able," is enough if you can prove that the debtor has become able.

Except in a few states the promise does not even have to be in writing. It does have to be in writing in the following: Arkansas, Georgia, Kentucky, Maine, Massachusetts, Michigan, New York, North Carolina, Pennsylvania, South Carolina, Texas and Vermont. In all states it is always better to get it in writing, but very often that is not practicable. It would put the debtor on his guard. Often former bankrupts will make such promises in the belief that they won't hold. To ask them to put them in writing would spoil the whole thing.

So that this Baltimore correspondent can collect his money—if his debtor has anything to pay with—and so can any other creditor who can induce his former bankrupt debtor, after his discharge in bankruptcy, to promise to pay.—(Copyright, July, 1916, by Elton J. Buckley.)

**GREENHOUSES BUILDING OR CON-
TEMPLATED.**

Jefferson, Wis.—Arthur Rathjen, one house.

Louisville, Ky.—William Walker Co., rebuilding.

Anderson, Ind.—Union Traction Co., house 25x60.

West Bend, Wis.—Harrison Ashman, three houses.

Storm Lake, Ia.—Munson Greenhouses, addition.

Irvington, N. J.—R. F. Jolley, one house, completed.

Hutchinson, Kan.—Underwood Greenhouse Co., additions.

Wichita, Kan.—Collettie & Hondrox, range of vegetable houses.

Denver, Colo.—A. C. Toothaker, 400 Josephine street, one house.

Bexley, O.—R. E. Myers, East Main street, house 30x125, completed.

New Bedford, Mass.—Herbert V. Sowle, 249 Bowditch street, one house.

Hackettstown, N. J.—Centre Street Greenhouses, additions and alterations.

Manitowoc, Wis.—R. C. Milski, 711 North Sixth street, one house, completed.

Wilmington, Del.—H. G. Haskell, Pennsylvania avenue and Mt. Salem Lane, Hitchings house.

Cazenovia, N. Y.—Cazenovia Greenhouses, Chenango St., two houses, each 32x150, and propagating house, completed.

**DREER'S**Florist Specialties,
New Brand, New Style.
Hose "RIVERTON."Furnished in lengths up
to 500 ft. without seam or
joint.

The HOSE for the FLORIST

3/4-inch, per ft., 15 c.

Reel of 500 ft., 14 1/2 c.

2 Reels, 1000 ft., 14 c.

3/4-inch, 13 c.

Reels, 500 ft., 12 1/2 c.

Couplings furnished

HENRY A. DREER,

714 Chestnut St.,
PHILADELPHIA, PA.**STANDARD FLOWER****POTS**If your greenhouses are within 500
miles of the Capitol, write us, we can
save you money.**W. H. ERNEST**

38th & M Sts., Washington, D. C.

THE FLORISTS' HAIL ASSOCIATIONIs a mutual organization, insuring green-
house glass against hail. Both commercial
and private establishments are accepted.
For particulars, addressJohn G. Ester, Jr., Saddle River, N. J.
Insurance Now.**NON-KINK WOVEN HOSE**In any length (one piece)
with couplings, 14c. per
foot. Unequaled at the
price. Remnants, shorter
than 50 feet, 10c. per foot,
with couplings.**HOSE VALVE—70c.**All brass except the hand
wheel. Has a removable
leather disk which is easily
replaced to keep water
tight. Stuffing box pre-
vents leaks at stem.**METROPOLITAN MATERIAL CO.**

1392-1414 Metropolitan Ave., Brooklyn, N. Y.



Dangerous to Believe

"There's a saying old and rusty
But as good as any new
That says: 'Never trouble trouble
Until trouble troubles you.'"

Now that may be all very well in some things; but it's a mighty dangerous thing to follow when it comes to heating.

Of course, there are a lot of growers who seem to absolutely refuse to read trouble signs; and never replace an old boiler until it gives completely out.

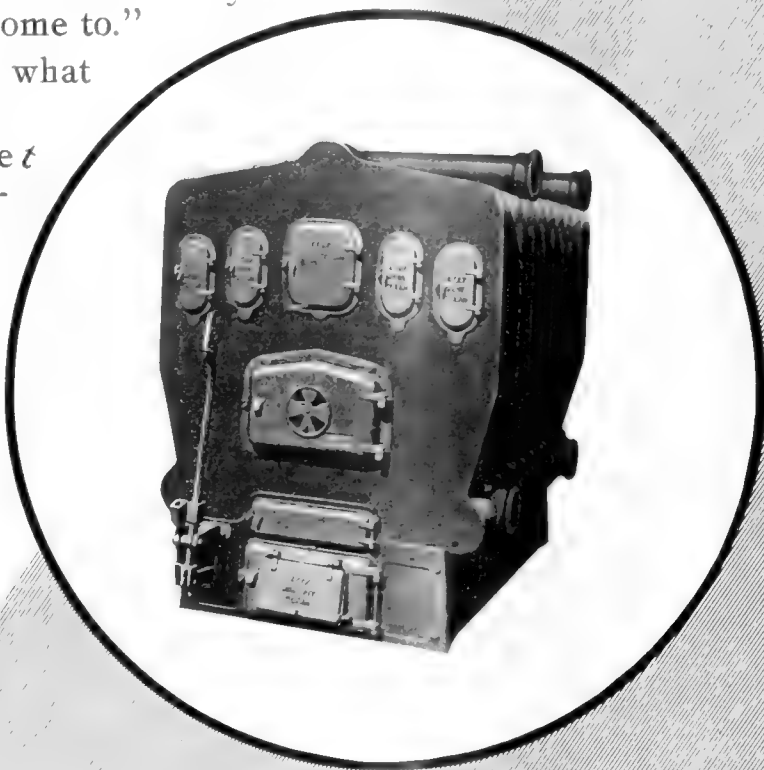
Sometimes they put off putting in a new boiler; because they think it's saving money. But old boilers are quite like old autos—they "cost more than they come to."

You never know, just what will happen next

It's good business to let your little troubles; trouble you just enough; to keep you out of bigger troubles.

Trouble yourself enough right now to order your Hitchings Boiler.

Order it now.



Hitchings & Co.

General Offices and Factory :
Elizabeth, N. J.

NEW YORK
1170 Broadway

BOSTON
49 Federal St.

PHILADELPHIA
40 S. 15th St.

Vol. XXIV
No. 12
SEPT. 16
1916

HORTICULTURE



A Hemlock Hedge
Bayard Thayer Estate, Lancaster, Mass.

Pl. R. S. T. Larchmont & Co.

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription, \$1.00



Boddington's Re-selected Winter-flowering Spencers as grown by Wm. Sim, Cliftondale, Mass.

WINTER SPENCER SWEET PEAS

NEW CROP SEED READY FOR DELIVERY NOW.

	1 oz.	4 oz.	1 lb.
APRICOT ORCHID. Mostly apricot self.....	\$1.50	\$4.50	\$15.00
BELGIAN HERO. A beautiful rose.....	3.00	10.00	35.00
BOHEMIAN GIRL. Light pink.....	1.50	4.50	15.00
BRIDAL VEIL. Pure white.....	1.00	3.50	12.00
CHRISTMAS PINK ORCHID. Pink, white wings.....	3.00	10.00	35.00
MRS. A. A. SKACH. Bright pink.....	.65	2.00	7.50
MRS. JOHN M. BARKER. Lilac.....	1.50	4.50	15.00
MRS. JOS. MANDA. Light shell-pink.....	.65	2.00	7.50
MRS. M. SPANOLIN. Double; white.....	1.00	3.50	12.00
MORNING STAR. Self pink color.....	3.00	10.00	35.00
ORANGE ORCHID. Standard orange, wings dark salmon-pink.....	1.50	4.50	15.00
ORCHID BEAUTY. Rose-pink, with orange.....	.75	2.50	9.00
PINK-AND-WHITE ORCHID.....	.65	2.00	7.50
RED ORCHID. Bright cherry-red.....	.75	2.50	10.00
SENSATION. Newman & Legg's Christmas Pink Orchid.....	3.00	10.00	35.00
SENSATION SCARLET. Bright scarlet.....	3.00	10.00	35.00
THE CZAR. Rose, wings white, mottled pink.....	3.00	10.00	35.00
VENUS. Blush pink.....	1.50	4.50	15.00
WHITE ORCHID. Pure white.....	.65	2.00	7.50
YARRAWA. Bright rose pink. Australian grown seed.....	2.00	7.00	24.00
Californian grown seed.....	.65	2.25	8.00
MIXED SPENCERS, WINTER FLOWERING: oz., 65c; ¼ lb., \$2.00; 1 lb., \$7.50.			

CYCLAMEN—Boddington's Gigantic

Sow Now For Best Results

	Tr. pkt.	100 seeds	1000 seeds		Tr. pkt.	100 seeds	1000 seeds
CHERRY RED.....	\$0.50	\$1.00	\$9.00	PEACH BLOSSOM. Rose color.....	\$0.25	\$0.75	\$7.00
CRIMSON.....	.25	.65	6.00	PRINCESS MAY. Color pink.....	.50	1.00	9.00
CRIMSON AND WHITE..	.50	1.00	9.00	ROSE OF MARIENTHAL. Shell pink.....	.25	.65	6.00
LILAC.....	.25	.65	6.00	SALMON KING. Finest salmon.....	.50	1.00	9.00
PINK. Soft pink.....	.25	.65	6.00	SALMON QUEEN. salmon.....	.50	1.00	9.00
ROSE. Light rose.....	.25	.65	6.00	SALMONIUM SPLENDENS. Fine salmon-pink.....	.25	.80	7.50
SNOWFLAKE. White.....	.25	.65	6.00	WONDER (GLORY) OF WANDSBEK. Intense salmon-red.....	.50	1.00	9.00
SYRINGA-BLUE.....	.25	.65	6.00	MIXED.....	.25	.60	5.50
WHITE BUTTERFLY.....	.50	1.00	9.00				
PHOENIX. Cherry-crimson.....	.50	2.00	18.50				
PURPLE KING.....	.25	.80	7.50				
VULCAN. Rich crimson.....	.50	2.00	18.50				

Our Wholesale Catalogue of Bulbs and Seasonable Flower Seeds is now Ready. Free to Florists on Request. 5 PER CENT. DISCOUNT FOR CASH WITH ORDER.

ARTHUR T. BODDINGTON CO., Inc., 128 Chambers St., New York City

THE BRITISH BLACKLIST

Does not effect the Large Auction Sales of

Holland Grown Bulbs, Decorative Plants, Evergreens, etc.,

which are now being conducted by

JOHNSON & MILLANG, Inc.

Coogan Building,

55-57 West 26th Street, NEW YORK

Under Cut Flower Exchange

Sales at Auction TUESDAYS and FRIDAYS throughout the season.

All sales start promptly at 9 A. M.

10,000 square feet devoted to our Auction Business

WRITE FOR CATALOGUE

Hardy Roses

NEW YORK STATE two-year field-grown, Low-Budded and Own-Rooted Stock, in prime grading of leading "Florists' Varieties" of HYBRID TEAS, PERPETUALS, POLYANTHAS and CLIMBERS. November delivery ex. dock New York, packing free, per 100 \$12.50; per 1000 \$120. Write for list of varieties available. Stock is grown by Al firm under contract for

AUGUST RÖLKER & SONS, 51 BARCLAY STREET, New York or P. O. BOX 752

John Waterer, Sons & Crisp

(LIMITED)

AMERICAN NURSERIES

Bagshot, England

MR. F. GOMER WATERER is now in New York, offering fine stocks of HARDY RHODODENDRONS, Etc.

Correspondence invited. Address at

Hotel Manhattan, New York

STUART LOW CO., ROYAL NURSERIES

Bush Hill Park, ENFIELD, ENGLAND
CYCLAMEN—Stuart Low's Superb Strain, 1916 Crop just Harvested—Low's Salmon King, Giant White Phoenix, Vulcan, Mrs. Buckston, Princess May, etc.

Also Specialists in ORCHIDS, ACACIAS, GRAPE VINES, FRUIT TREES and ROSES. Price List on Application.

During September and October any communications addressed to HARRY A. BARNARD, Hotel Albert, New York, will have prompt attention.

In Writing Advertisers
Kindly Mention
HORTICULTURE

GERANIUMS

Alphonse Ricard, Beaut. Pot. & S. A. Nutt, Gen'l Grant, Mad. Buchner, Mad. R. Schaefer, Mad. Landry, La. P. and other good kinds, in 3-in. Stock, at \$1.00 per 1000. We have a large stock for immediate shipment and are ready to take orders for 1916 plants, in 11 and 12 inch pots, from \$2.50 to \$5.00 each.

	2-in.	2-in.	3-in.	3-in.		2-in.	2-in.	3-in.	3-in.
	100	1000	100	1000		100	1000	100	1000
ACALYPHA	\$2.00	\$18.50	\$3.00	\$25.00	LEMON VERBENAS	\$2.00	\$18.50	\$3.00	\$25.00
ALTERNANTHERA	2.00	18.50	3.00	25.00	LANTANAS, 10 varieties	2.00	18.50	3.00	25.00
AGERATUM	2.00	18.50	3.00	25.00	MOONVINES, White and Blue	2.00	18.50	3.00	25.00
ASPARAGUS SPRENGERI, Extra strong	2.00	18.50	3.00	25.00	PARLOR IVY, S. Scandens	2.00	18.50	3.00	25.00
BEGONIAS, Vernon	2.00	18.50	3.00	25.00	PETUNIAS, Double and Single	2.00	18.50	3.00	25.00
COLEUS, 10 varieties	2.00	18.50	3.00	25.00	POMPON CHRYSANTHEMUMS	2.00	18.50	3.00	25.00
CUPHEA, Platycentra	2.00	18.50	3.00	25.00	SALVIA, Bonfire and Zurich	2.00	18.50	3.00	25.00
HARDY ENGLISH IVY	2.00	18.50	3.00	25.00	SWAINSONA, White	2.00	18.50	3.00	25.00
CELERY, White Plume, \$1.00 per 1000; 10,000 and over, 85c. per 1000. Golden Self Branching, \$2.50 per 1000.									

CASH WITH ORDER.

R. VINCENT, Jr., & SONS CO.,
**WHITE MARSH,
MD.**

LILY OF THE VALLEY PIPS

Danish and German Stock

Booking Orders now for 1916 Crop

LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP
CHAS. SCHWAKE & CO., Inc.

Valley

GERMAN, SWEDISH
AND DUTCH PIPS

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....397	Cooke, Geo. H.....384	Gunther Bros.....391	Leonard Seed Co.....383	Pennock-Meehan	Smith, Elmer D.
Albany Cut	Cowee, W. J.....388	Guttman & Ray	Low, Stuart Co.....370	Co.....389	& Co.....372
Flower Ex. 390	Craig, Robt. Co.....372	nor.....390	Lord & Burnham	Pierce Co., F. O.....397	Smith, P. J.....390
Allen, J. K. 391	Crawback, Geo.	Hail Association.....398	Co.....399-400	Pierson, A. N.....372	Smith & Fetters.....385
American Bulb	W. Co.....391	Hammond Paint	Lochner & Co.....371	Pierson, F. R.....372	Smith, W. & T.
Co.....383	Dards.....384	& Slug Shot	McHutchison &	Pratt, B. G. Co.....396	Nursery Co.....381
Anderson, S. A.....385	Davenport, A. M.....380	Works.....396	Co.....372	Poehlmann Bros.	Smyth, Wm. J.....385
Anglin & Walsh.....372	Dreer, H. A.....397-398	Hart, Geo. B.....390	McManus, Jas.....390	Co.....388	Stearns, A. T.
Aphine Mfg. Co.....396	Dorner, F. &	Henderson, A. &	McConnell, Alex.....384	Lumber Co.....398	Stump, G. E. M.....384
Badgley & Bishop,	Sons Co.....372	Co.....383	MacNiff Horticul-	Pulverized Ma-	Thorburn, J. M.
Inc.....390	Dunlop, John H.....385	Hentz & Nash.....390	tural Co.....381	nure Co.....396	& Co.....383
Barrows & Son.....381	Dysart, R.....381	Hess & Swoboda.....385	Marshall, W. E.	Randall's Flower	Totty, Chas. H.....372
Bayersdorfer, H.	Eastern Chemical	Hews, A. H. &	& Co.....383	Shop.....384	Traendly &
& Co.....387	Co.....396	Co.....397	Metropolitan Ma-	Reed & Keller.....388	Schenck.....390
Bay State Nurs-	Edwards Folding	Hill, E. G. Co.....388	terial Co.....396-398	Riedel & Meyer.....390	United Cut Flower
series.....381	Box Co.....388	Hill, D. Nursery	Michell, H. F.	Reid, Edw.....388	Co.....391
Bobbink & At-	Elliott Auction	Co.....381	Co.....382	Reuters.....385	Valentine, J. A.....384
kins.....381	Co.....381	Holland Nurser-	Michigan Cut	Robinson, H. M.	Vincent, R., Jr.,
Boddington, A. T.....370	Ernest, W. H.....397	ies.....381	Flower Ex.....388	& Co.....391	& Sons Co.....371
Bolzano & Son.....383	Esler, J. G.....398	Holm & Olson.....384	Millang, Chas.....390	Robinson, H. M.	Wants, For Sale.....395
Breck, J. & Sons.....383	Evans, J. A. Co.....398	Irwin, R. J.....383	Miller, A. L.....381	Co.....390	Ward, R. M. &
Breitmeyer's J.	Eyres.....385	Johnson & Mil-	Moninger, J. C.	Roehrs, J. Co.....372	Co.....372
Sons.....384	Farquhar, R. &	lang.....370	Co.....398	Roland, Thomas.....385	Waterer, John.
Budlong, J. A.....388	J. & Co.....383	Jacobs, S. &	Murray, Samuel.....384	Rolker, A. &	Sons & Crisp.....370
Bunyard, A. T.....384	Foley Mfg. Co.....398	Sons.....398	National Nur-	Sons.....370	Weber, F. C.....385
Burnett Bros.....382	Ford, W. P.....390	Kasting, W. F.	seriesmen.....381	Rosery, The.....384	Weiss, Herman.....391
Burpee, W. A. &	Ford, M. C.....390	Co.....388	Nicotine Mfg,	Schling, Max.....384	Welch.....388
Co.....383	Fottler, Fisk &	Keller, J. B. Sons.....384	Co.....396	Schwake, Chas.	Welch Bros. Co.....388
Carnation Support	Rawson Co.....382	Kelway & Son.....382	Nessen, Leo Co.....388	Co.....371	Welch, Patrick.....391
Co.....381	Froment, H. B.....390	Kerr, the Florist.....385	Nut Grower.....395	Sharp, Partridge	Wood Bros.....372
Carter's Tested	Galvin, Thos. P.....385	Kervan Co.....390	Ouwkerk, P.....381	& Co.....398	Woodrow & Mar-
Seeds, Inc.....382	Gasser Co., J. M.....385	King Construc-	Palisades Nur-	Sheridan, W. F.....390	ketos.....388
Childs, John	Goddard, S. J.....380	tion Co.....397	series.....381	Siebrecht, Geo. C.....390	Young, John &
Lewis.....372	Graham, Adam &	Knoble Bros.....385	Palmer, W. J. &	Siebrecht, W. R.....390	Co.....390
Clarke's D. Sons.....384	Son.....385	Kramer, F. H.....385	Son.....385	Siggers & Sig-	Young & Nugent.....384
Clucas, R. W.....381	Grey, Thos. J.	Kroeschell Bros.....397	Park Floral Co.....384	gers.....398	Zvolanek, Ant. C.....382
Coan, J. J.....391	Co.....383	Kuebler, W. H.....390	Parshelsky Bros.....398	Skidelsky, S. S.	
Cottage Gardens	Gude Bros. Co.....384	Lange, H. F. A.....385	Penn the Florist.....385	& Co.....383	
Co.....372					

FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 392, 393, 394, 395



NEW CARNATION COTTAGE MAID

A sport of Mrs. C. W. Ward

A new carnation of a delightful shade of flesh pink, somewhat darker than Enchantress.

IT NEVER FADES

When the hot sun comes along in the spring, COTTAGE MAID takes on a deeper hue until June it is almost the shade of Gloriosa.

It has all of its parents' fine qualities as a commercial carnation.

Order now and get early cuttings. Orders shipped in season.

Price for rooted cuttings:
\$12 per 100, \$100 per 1000

COTTAGE GARDENS COMPANY, Inc.
QUEENS, NEW YORK

LILY BULBS

Fall Shipment from Japan

Prices quoted F.O.B. New York, Chicago, Denver, San Francisco and London (Ont.)

Write for quotations stating quantity variety and size required.

McHUTCHISON & CO. The Importers
95 Chambers St., New York

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, N. Y.

A. N. Pierson, Inc.

CROMWELL, CONN.

Bedding Plants and Roses

CARNATIONS

Field Grown

ENCHANTRESS SUPREME, EUREKA
WHITE WONDER, PINK DELIGHT.
\$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL,
MATCHLESS,
\$7.00 per 100; \$55.00 per 1000.

LADY NORTHCLIFF, PINK WINSOR,
WHITE WINSOR.
\$6.00 per 100; \$50.00 per 1000.

WOOD BROS., FISHKILL, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ELMER D. SMITH & CO. CHRYSANTHEMUMS

Ask for Catalogue

ADRIAN, - - - MICH.

CHARLES H. TOTTY

CHRYSANTHEMUMS
MADISON, N. J.

OUR EXHIBIT OF

GERMAN IRIS

Won FIRST PRIZE at the

*International Garden Club, Summer Show, Pelham Manor
June 1-4, 1916*

JOHN LEWIS CHILDS, INC.,
FLOWERFIELD L. I., N. Y.

ORCHIDS

CONSERVATORY PLANTS

BEGONIAS

Lorraine, Cincinnati and Mrs. Peterson

JULIUS ROEHRS CO.
Rutherford, N. J.

LILY BULBS

RALPH M. WARD & CO.
71 MURRAY ST., NEW YORK

FREESIA PURITY BULBS

Florists' Forcing Size, 1/2 to 5/8 inch
\$7.50 per 1000 High Grade Bulb
ANGLIN & WALSH CO.
Williamsbridge, N. Y.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Cover Crops

Do not neglect to sow rye with a little vetch on all ground that will lie exposed to the weather this coming winter. It is not too early to sow same, and where the corn is still uncut it can be scattered right in between the rows and worked in with a cultivator or even by hand. It will pay to do this for if there should be any soil left exposed to the weather it will leach badly and the plant food that was put in will wash away a good deal. This is more true of hilly or sloping grounds. If planted early enough to rye and vetch, the roots of the two will work into the soil and gather up a large quantity of the plant foods and hold same. The rye will also catch and hold any plant food that may be dropped around in the winter time, thus making it safe to haul manure when other work is slack without danger of losing most of it through washing. The rye can be ploughed under in the spring and the lots sown to grass to grow sod. By adding a little green house soil later, the sod thus grown will be just what is needed in the rose benches. Of course it will have to lie at least three or four years to get the proper fibre, but by working up a piece of land every year there can always be a good supply of nice sod on hand.

The Fires

Heat will be needed in the greenhouses very shortly and if the boilers have not already been turned on, it will be best to have them ready to turn on at a minute's notice. See that they are overhauled and all broken parts replaced. The cool nights will make the houses run too cold, and with the hot days the difference between the day and night temperature will be too great for the welfare of the roses. The temperature in the rose house should not be allowed to drop below 64 at this time of the year, and with certain varieties it will be best to carry the houses at 68 with plenty of air. It is poor policy to close tight at this time of the year in order to save a little coal. Where there is no steam in the houses and growers have to depend on hot water for their heat it will be best to close all the pipes save one coil. This will give the necessary heat and at the same time will insure good circulation. As soon as steam is turned on it will pay to go through and apply a little sulphur to the pipes, taking one coil all around the house and applying a coat of sulphur to it every ten or twelve feet. Out of every sixteen feet of coil, four feet will be painted with sulphur. Where high pressure is turned into the pipes a little lime will have to be added to the sulphur in order to weaken it and keep it on the pipes longer so that it will not evaporate too rapidly and make the sulphur fumes too strong, thus doing more harm than good. A little sulphur can be applied to all the houses even though there is no sign of

mildew. If there is a speck somewhere the fumes will be sure to do away with it and it will have no chance to spread later. Care should be taken to keep the steam even so that the temperature will not be going up and down. The ventilators should never be opened at night to reduce the temperature in the houses after too much heat has been applied.

Manure for Mulching

Keep manure coming all the time in order to have a good supply on hand when it will be needed for fall mulching. Also see that the manure that was brought up some time ago is kept turned over all the time so that there will be no danger from burning. If there is no shed provided for storing manure a good place to put it will be on low sod heap so that any liquids that may leach out will go into the sod and can thus be utilized. At any rate there should be a good layer of sod under the manure piles so as to save every particle of the manure. Even if a dairy is kept and the supply is abundant, no part should be allowed to waste as it is about the best plant food that can be bought.

Painting

With help scarce and materials very high, growers will think how much cheaper they could have done their painting last year. This will do very little good however, and the only way to save the houses is to do as much as possible this year even if it does cost more money. It will be well worth while. Not only will the houses be preserved but better roses can be grown, as there will be more light, and if the work is done right there will be no leaks to drip, drip, drip down on the plants all winter long. The place will also look better and there will be far more satisfaction running it. Houses that are real bad, with very loose glass and the putty all gone or loose and very little paint on the bars, had better be done all over, and that means taking all the glass out, painting the bars well and then reglazing again. All loose and blistered paint should be carefully removed, and the first coat of paint applied fairly thin and well brushed in. The second coat can be thicker and floated on instead of brushing out. Bare wood or new work should have three coats of paint, the first two fairly thin so that the paint will stick. If only one coat of thick paint is given the wood will quickly absorb all the oil and the paint will soon crack and peel off. Pure raw oil and white lead should be used with a little touch of drier. Very little of the latter should be used however. Some growers will prefer ready mixed paint, and when bought from good reliable dealers this may be the best for certain places, especially where the help is not what it might be. The lead and oil require quite some stirring to properly blend the two together.

HORTICULTURE

VOL. XXIV

SEPTEMBER 16, 1916

NO. 12

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 147 Summer Street, Boston, Mass.

Telephone, Oxford 392.
 WM. J. STEWART, Editor and Manager.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—A Hemlock Hedge.	
ROSE GROWING UNDER GLASS—Cover Crops—The Fires—Manure for Mulching—Painting—Arthur C. Ruzicka	373
THE RAISING OF WINTER FLOWERING BEGONIAS	375
ADVANCING PRICES—WHY NOT?—P. M. Read	375
CLUBS AND SOCIETIES—National Association of Gardeners—Meetings Next Week—Horticultural Society of New York—Massachusetts Horticultural Society—Holyoke and Northampton Florists' and Gardeners' Club—Chicago Florists' Club—Pittsburgh Florists' and Gardeners' Club—Florists' Club of Washington—Coming Exhibitions—New York Florists' Club—New York Dahlia Show—Gardeners' and Florists' Club of Boston—Proposed North Shore Horticultural Building, Illustrated—Club and Society Notes	376-378
OBITUARY—James Fitzgerald—William T. Bell—John W. Graham—William J. Newton—Henry A. Salzer—Mrs. James T. Aldous—John Boyle	378-379
HONEST ADVERTISING; DISCONTENTED PARTNERS—Elton J. Buckle	379
SEED TRADE—Pedigree Pea Prices—Seed Bean Prospects—Garden Beets, Carrots, Etc.—Rice Seed Co. Entertains—One Week's Imports—Seed Importation Act Amended	382
OF INTEREST TO RETAIL FLORISTS:	
New Flower Stores	384
Flowers by Telegraph	385
The Influence of Department Store Flower Selling—Allie Zech	387
NEWS ITEMS FROM EVERYWHERE:	
Chicago, Pittsburgh, Boston, Philadelphia, New York, Washington	386
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago, Cincinnati, New York, Philadelphia	389
Pittsburgh, St. Louis, Washington	391
MISCELLANEOUS:	
Euphorbia triangularis—Illustrated	375
Growing Rhubarb—A Hemlock Hedge	375
A Walk Through the Woods—Poetry	375
New Corporation	380
Business Troubles	382
Visitors' Register	384
Prof. James G. Sanders, Portrait—News Notes	391
Belgian Shipments Improbable	396
Catalogues Received	396
The Paper Famine, Poetry	396
Freakish Facts and Factless Freaks	397
Greenhouses Building or Contemplated	397
Patents Granted	397

Mutations of the Dahlia

The dahlia is well to the front in the exhibition halls just at present and, should Jack Frost delay his coming, it will so continue for a time but no one can say within forty-eight hours when the gorgeous flower of late summer may be ruthlessly levelled and therein lies one of the dahlia's weak points as a garden ornament and as a cut flower. At most of the shows this season the peony-flowered section, although of but recent recognition, seems to be taking the precedence in the novelties presented, the number of exhibits and in public interest and admiration, supplanting to a considerable extent the cactus varieties, lately so popular, as well as the older show, fancy, pompon and single sorts. How long the big, dashing peony-like blooms will retain their prestige is a question depending much upon the good sense of the introducers and the conservative attitude of the societies under whose auspices awards are made. The dahlia, in common with the peony, chrysanthemum, gladiolus and many other things which have been the subjects of much special breeding, has suffered and is suffering from the unreasonable multiplication of named varieties. There have been thousands of dahlias named where even hundreds would have been an overdose. Here is where the latest idol—the colossal peony-flowered type, will need and should be given protection, for, with the present tendency away from exact specifications of form and other determinable qualities and the absence of arbitrary standards, anything monstrous or fantastic can now get into the running and such can naturally be produced ad infinitum. A resolute weeding out of the old time lists and unsparing sifting of new candidates would seem to be the American Dahlia Society's foremost duty.

It can't be done

A short time since, HORTICULTURE declined to accept an advertisement from California, of a "hybrid Oak-Walnut". Later, we were somewhat surprised to see the same advertisement appear in our New York contemporary and we are now still further surprised to find an editorial note in the columns of our contemporary which appears to be an attempt to confirm the absurd claims made by the aforesaid advertiser. Our editorial friend mentions as proof that he had "seen a Walnut and Chestnut hybrid in the renowned arboretum of the Vilmorins, some twenty miles or so out of Paris." "This," he says, "does not take a compound name combining the two genera, as might be expected but was simply called Juglans Vilmoriniana." Juglans Vilmoriniana, as is well known, is a hybrid between Juglans nigra, the Black Walnut, and J. regia, the English Walnut. The first mention of it which we have knowledge of was by Carriere in the Revue Horticole for 1863, p.31. Monsieur Maurice Vilmorin gave an account of it in Garden and Forest, Vol. IV., p. 51, with illustrations of the fruit and of the tree growing at Verriers; the tree is now about ninety years old. The general name for the J. nigra x regia hybrids, of which there are several, is Juglans intermedia. In the neighborhood of Boston, Mass. there are growing several large trees of a hybrid between J. cinerea, the "Butternut," and J. regia. It seems superfluous to say to our readers or to remind our esteemed contemporary that no instance of hybridization between members of two natural orders has ever been known. The supposed Oak-Walnut hybrid of the California advertiser is simply an abnormal seminal form of Juglans Hindsii which has been named var. quercina, and is so described in Bailey's Standard Cyclopedia of Horticulture, Vol. III., p. 1722.

Looks like faulty methods

The contributors in this paper, from Illinois and the other far in Pennsylvania, comment on the regrettable condition in the flower trade immediately following a day on which flowers are largely called for, when market values drop to a disastrous level. The florists all know these facts but what have they ever done by way of remedy? Dealers in other commodities, when slack times occur, turn to advertising and special sales for relief but the average florists' tactics are just the reverse. Who ever knew of any systematized attempt to work off the lagging product of the florist, say week after Easter? But—before Easter, before Mothers' Day, before Christmas—when he is assured of all the business that can be handled at reasonable prices, he jumps into advertising for more! See the point?

THE RAISING OF WINTER-FLOWERING BEGONIAS.

In order to obtain plants of the tuberous section of *Begonia* for crossing with *B. socotrana*, which flowers during autumn and winter, it is necessary to make preparation betimes. Good strong growing kinds should be selected and kept in as cool a situation as possible in a cold frame throughout the summer. The plants should be potted up late and grown in moderately small pots. The colors most wanted are a good pure white, yellow, and crimson. The other parent, *B. socotrana*, must be started early in moderate heat, and encouraged to grow on quickly. When the plants are coming into flower they should be brought into a dry, airy house, with a night temperature of about 55 degrees. The plants should be so placed that they receive all the sunlight possible, for in such circumstances the male flowers produce pollen more freely, and fertilization is effected more easily. It should be noted that, as a rule, the anthers of *B. socotrana* do not burst, and to this fact many failures are to be attributed. To get over this difficulty the stamens should be gathered when fully developed, and placed in a dry part of the house. When the anthers seem to be ripe, their tips should be cut in order to allow the pollen to escape. It is sometimes necessary to shake them well, to liberate the pollen. Generally, however, enough pollen is produced by one male flower to pollinate two or three female flowers. After the flower has been fertilized it should be staked, and supported with raffia or other tying material in order to keep it from drooping, as it is apt to do so late in the season.

The seed ripens fairly quickly, and as soon as the seed pods begin to turn brown they should be watched attentively in order that the seed may be gathered before the pods burst. The seeds should be sown at once, in small pots or pans, and they should produce plants which will flower in the following autumn.

I had less success with *B. socotrana* as a seed parent, for it does not seed freely with pollen of plants of the tuberous section. Of the many winter-flowering varieties which I raised, John Heal and Winter Gem are the only kinds produced from *B. socotrana* as the seed parent.

Of the many varieties raised by making the cross the other way I need not speak now. They include Acquisition, Fascination, Mrs. Heal, Scios, Exquisite, Her Majesty, Optima, Rosalind—all single flowered—and Ensign, Ideala, Julius, Winter Cheer, Etatior, Success, and The Gem, with semi-double flowers.

The only hybrid obtained by crossing tuberous *Begonias* with a winter flowering hybrid was Adonis, which was produced by crossing an orange-scarlet tuberous variety with John Heal.

None of the new race of winter-flowering hybrids has produced seed either by cross or self-fertilization, and in this they are in marked contrast with the tuberous section, which seed freely.—*John Heal, F. M. H., in Gardeners' Chronicle, London.*

EUPHORBIA TRIANGULARIS.



The photograph from which this cut was made was sent to us by Theodore Outerbridge, proprietor of Sunnylands, Bermuda, and represents a specimen growing there thirty feet high. It is locally known as "Candelabra Cactus," but as the botanical name indicates it is not a cactus but a near relative of the popular Poinsettia which also grows freely in the gardens of Bermuda.

GROWING RHUBARB.

EDITOR HORTICULTURE:

Dear Sir: Can you give me through your columns a little information about rhubarb raising. I am starting in with a small greenhouse. I am told that rhubarb can be sold through the winter with profit and can utilize the floor space under benches for growing it. What I want to know especially is about taking it up from outside. Should roots be allowed to freeze in the ground before digging? Or, should they be taken up earlier and left lying out until frozen? And how should they be set in the greenhouse and what care is required?

A SUBSCRIBER

It is better to lift the roots before frost and leave the clumps outside covered with about an inch of hay or loam until they get ten or fifteen degrees of frost. Then remove them to a cellar or under greenhouse bench where they can have a temperature of 55 to 60 degrees. Place them closely together filling the spaces with earth. In commercial rhubarb cellars they use a 6-inch compost of two-thirds horse manure and one-third loam. This should be composted and turned over in the heap outdoors, several times for a period of two days. Take up large clumps, say one to two feet across, as good results can not be had from small or inferior roots, and leave all the soil possible on them. After having been forced once they are useless. Light is not needed—in fact, the stalks produced in darkness are preferable in quality and color. After they have started to grow they will require plenty of moisture.

ADVANCING PRICES—WHY NOT?

The Easter lily when in condition previous to Easter Sunday will bring 8c. or 10c. per flower and bud. After Easter they can hardly be given away for the hauling. This is well known to all growers, yet the grower buys bulbs at prices of \$35 to \$100 and upwards, pays \$30 for his pots—grows the stock for 6 or 7 months and if he has made a good guess as to weather conditions previous to Easter he will get 10c. per flower. Should the guess be wrong, he will have to accept much less.

Here is a condition where the grower makes or breaks himself as far as lilies are concerned; but why not make it right? The bulb and other supply men have to get their money anyhow, and with poor weather the whole winter's work on lilies has been at a loss. Coal has advanced, fertilizer has gone up, because of scarcity of the chemicals used in the manufacture. Labor has increased almost "out of sight" and the only fixture we have is sunshine and even that was rather scarce this spring especially. Now a partial solution to this is a slight advance in the selling price,—a cent or two should be added—less stock grown and grown better, and more attention paid to the costs involved in running the house.

I recently had a talk with a grower who states that it pays him to have an expert accountant one or two days each month and this accountant has so far paid for himself by showing in dollars and cents just which stock has made or lost money during the monthly periods. I expect in a short time to have his figures to look over and will try to pass them on for the benefit of all. He tells me that during June he lost money on bedding plants and that next June he will increase his prices. Now this grower has been losing money for years on bedding work and like many others did not know it. How about your own profits?

P. M. READ.

Sharon Hill, Pa.

A HEMLOCK HEDGE.

At all seasons of the year, whether mantled with snow in winter, tipped with light green new growths in spring or in the more sombre green of late summer, this most graceful of all the conifers has no superior for evergreen hedge purposes, all through the northern United States. A hedge of *Tsuga Canadensis*, any height from three to fifty feet is a thing of beauty.

A WALK THROUGH THE WOODS.

A walk through the woods in September
Is like a dream I can never deny.
The leaves that glow like emeralds
And the mosses the tree and the vine
And the sky for my foot
With sun and with soil
The priest and the priestess
And I am walking with God.

Like a hymn of light
As a rosary prayer,
And set to the loftiest measure,
The forest an anthem sublime,
No man's teaching dependent
From cant and from creed I am free;
And the priest and the priestess
And I am walking with God.
—Boston Teacher.

CLUBS AND SOCIETIES

NATIONAL ASSOCIATION OF GARDENERS.

An executive meeting of the trustees and directors of the National Association of Gardeners was held at the Murray Hill Hotel, New York City, on Thursday, September 7th, President W. N. Craig presiding. Letters were received from Vice-President Theodore Wirth, of Minneapolis, Minn., and Director Thomas W. Head, of Lake Forest, Ill., both reporting a constantly increasing interest among the gardeners of the middle west and west towards the National Association and recommending that the organization's annual convention be held in some western city in the not distant future.

The action of the Bureau of Standards, of the Board of Estimate, of the City of New York, recommending a higher scale of salaries for the gardeners employed by the New York City Park Department was officially brought to the attention of the meeting. A resolution was adopted endorsing the Board of Estimate's action and calling for the support of the Mayor and the Park Commissioner of the City of New York towards securing the adoption of the measure when the 1917 budget comes up for consideration.

The recent discussion in some of the New York daily papers on the poor compensation gardeners receive in some of the public institutions was also brought to the attention of the meeting. While the existing conditions were discussed and severely condemned, as the matter was not officially before the meeting, however, no recommendations were made.

It was decided to offer the association's silver medal for competition to all horticultural societies or gardeners' clubs who desire to accept the offer. The terms of competition (to be for 1917) are left to the local societies as to whether it should be for one of its shows or for monthly competition, the only restriction being that the competitor must be a member of the National Association of Gardeners. The plan of the National Co-operative Committee to provide essays for the monthly meetings of the local horticultural societies, which it has done during the past year, was approved, and it was decided to continue to supply these essays to the some fifty odd societies throughout the country that applied for them.

The appointment of John Canning, of Ardsley, N. Y., as director was announced, to fill the unexpired term of James MacMachan, deceased, whose term expires Jan. 1, 1919.

It was voted to hold the next annual convention during the early part of December at Washington, D. C. For the 1917 convention Chicago was voted as the choice of the meeting. Pittsburgh was also favorably discussed as the 1918 meeting place.

Following the adjournment of the meeting some of the members coming from a distance visited the estate of Adolph Lewisohn, Heatherdell Farm,

Meetings Next Week

Monday, Sept. 18.

Detroit Florists' Club, Bemb Floral Hall, Detroit, Mich.
Houston Florists' Club, Chamber of Commerce Rooms, Houston, Tex.
New Jersey Floricultural Society, Orange, N. J.

Tuesday, Sept. 19.

Gardeners' and Florists' Club of Boston, Horticultural Hall, Boston, Mass.
Gardeners' and Florists' Club of Ontario, St. George's Hall, Toronto, Can.
Minnesota State Florists' Association, Minneapolis, Minn.
Pennsylvania Horticultural Society, Horticultural Hall, Philadelphia, Pa.

Wednesday, Sept. 20.

Rhode Island Horticultural Society, Public Library, Providence, R. I.
Tarrytown Horticultural Society, Tarrytown, N. Y.

Thursday, Sept. 21.

Essex County Florists' Club, Kreuger-Auditorium, Newark, N. J.
New Orleans Horticultural Society, Association of Commerce Bldg., New Orleans, La.
North Westchester County Horticultural Society, Mt. Kisco, N. Y.
Tacoma Florists' Association, Maccabee Hall, Tacoma, Wash.

Friday, Sept. 22.

Connecticut Horticultural Society, County Bldg., Hartford, Conn.
Monmouth County Horticultural Society, Red Bank, N. J.
Pasadena Horticultural Society, Pasadena, Calif.
People's Park Cottage Gardeners' Association, Paterson, N. J.

Saturday, Sept. 23.

Dobb's Ferry Gardeners' Association, Dobb's Ferry, N. Y.

Ardsley, N. Y., over which John Canning presides as superintendent, and later proceeded to "Greystone," Yonkers, N. Y., the estate of Samuel Untermyer, where over a million dollars is being expended in improvements and over four hundred men are reported to be at present employed in the development work.

THE HORTICULTURAL SOCIETY OF NEW YORK.

The Horticultural Society of New York, in cooperation with the New York Botanical Garden, will hold a dahlia exhibition on Saturday and Sunday, September 23 and 24, in the Museum building, New York Botanical Garden. The prizes for this exhibition are offered by the New York Botanical Garden from the income of the William R. Sands Fund. The exhibition will be open from 2 to 5 P. M. on Saturday, and from 10 A. M. to 5 P. M. on Sunday. It is hoped that all interested in this popular flower will make entries and help to make the exhibition large and attractive. Schedules are now ready for distribution and will be sent upon application to the Secretary, George V. Nash, The Mansion, New York Botanical Garden, Bronx Park, New York City.

GEORGE V. NASH, Secretary.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The dahlia and fruit exhibition on Saturday and Sunday, September 9 and 10, made a very attractive spectacle which was visited and admired by many people. Gladioli were almost as abundant on the tables as dahlias and these two specialties together with the collections of herbaceous border plants and native wild flowers made a glowing expanse of color.

The principal exhibitors and prize winners were J. K. Alexander, W. D. Hathaway, Geo. L. Stillman, Fred. P. Weber, Fottler, Fiske, Rawson Co., Mrs. L. A. Towle and George Ott on dahlias; J. K. Alexander and Wrentham Dahlia Gardens on gladioli; Faulkner Farm and Blue Hill Nurseries on herbaceous perennials. The sensation of the show and, in our judgment, one of the finest dahlia acquisitions in several years, was the peony-flowered dahlia Mrs. Frederick Grinnell, a seedling of 1911, grown and exhibited by John P. Rooney. The flower resembles an enormous peony but its chief claim to the silver medal awarded is its color which is a deep pure pond lily pink, unlike any other dahlia we know of. There was another dahlia, Meritorious, exhibited by Emerson W. Bennett, a seedling of many colors, which received a well-merited certificate of merit. A silver medal was awarded to Fottler, Fiske, Rawson Co. for an extensive and very fine collection of named dahlias and gladioli.

The fruits and vegetables were displayed in the small hall. Thomas T. Watt received honorable mention for his prolific tomato Watts' Wonder, a cross between Stirling Castle and Dawson's Plum. The fruits were shown on the vine in enormous clusters. There were some excellent hot house grapes from Mrs. John C. Whitin.

HOLYOKE AND NORTHAMPTON FLORISTS' AND GARDENERS' CLUB.

The monthly meeting was held Sept. 5 at the Massachusetts Agricultural College, on invitation of Prof. Nehrling. A hardy perennial garden has recently been established and is receiving much attention from visitors. The business meeting was called to order by President Butler, and plans for the coming show were discussed. Prof. Nehrling read two papers received from the National Association of Gardeners, one on "The Diabrotica," by R. A. Sell, of Texas, the other on "The Iris Worm," by T. S. Snow, of Penn. A general discussion on insect pests followed. Several vases of perennials were on the table from the college garden and H. E. Downer showed *Senecio clivorum*.

H. E. D.

CHICAGO FLORISTS' CLUB.

The Chicago Florists' Club held its first meeting of the season at the Morrison Hotel, Sept. 7, with sixty in attendance. Interest centered on the paper of the evening by Allie Zech, on the influence of the special flower sales of the department stores on the florists' business. Mr. Zech's paper, which appears on another page of this issue presents a serious problem in the flower business of Chicago. Each year the large department stores cut more heavily into the trade on all the florists' special days and offer flowers and plants at a price much lower than those quoted in the regular channels. The reading was followed by a lively discussion. Some contended that it helped to foster the love of flowers in homes where flowers otherwise would not be used, and others that only the worthless stock found its way to the department stores, and it was suggested that one way out of the situation would be for retail florists to have more frequent special sales of their own. Allie Zech has grown up in the business and applies his mind as well as his hands to his work.

Arthur Herrington of New York was a guest of the club and gave an interesting talk on the flower show to be held in Pittsburgh, Pa., in June 1917. The proposition of a joint advertising campaign in the newspapers was again discussed and showed that five thousand dollars had been pledged by the wholesalers, but no action was taken, that would lead to anything definite.

PITTSBURGH FLORISTS' AND GARDENERS' CLUB.

The regular monthly meeting of the Club was held Tuesday, September 5th in the Fort Pitt Hotel. E. C. Reineman was appointed chairman of a committee to arrange for a banquet in the late fall or early winter in commemoration of the 25th anniversary of the founding of the Club. For the Flower Show next June under the auspices of the Garden Club of Allegheny County President Becherer was appointed to handle matters in relation thereto. The preliminary schedules for the show have already been mailed, and under the managership of Arthur Herrington the outlook is very promising for a large and successful flower show. An interesting exhibit of seasonable flowers was made by various members for which they received a vote of thanks. It was suggested that the subject for the next meeting be Trees, embracing their identification, proper planting and care, and members were asked to bring specimens of the foliage of those for which they wished identification.

H. P. JOSLIN, Secretary.

FLORISTS' CLUB OF WASHINGTON

The Florists' Club of Washington, D. C., expects to win fame during the coming season on the bowling alleys, for sanction was given at the monthly meeting for the use of the club name by a team to be entered in the Commercial Duckpin League. This

Coming Exhibitions

Sept. 18, Orange, N. J.—1st and Horticultural exhibition of the New Jersey Floricultural Society.

Sept. 22-23, Paterson, N. J.—1st annual Fall flower show of New Jersey Floricultural Society at Y. M. C. Men's Christian Association Hall.

Sept. 23, Maplewood, N. J.—Second annual Dahlia exhibition.

Sept. 26-28, New York, N. Y.—Amer. Dahlia Soc.'s annual show, in Engineering Bldg., 25 W. 39th St. In conjunction with The American Institute of the City of New York.

Sept. 26-29, Chicago. Vegetable Growers' Association, Hotel La Salle. Annual Convention and Trade Exhibit.

Oct. 7-8, Boston.—October Fruit and Vegetable Exhibition, Massachusetts Horticultural Society, Horticultural Hall.

Oct. 10-12, New Orleans, La.—Eighteenth Annual Convention American Association of Park Superintendents.

Oct. 26-27, Madison, N. J.—Twentieth Annual Flower Show, Morris County Gardeners' and Florists' Society, James Assembly Hall.

Oct. 27-29, Mount Kisco, N. Y.—Fall show of the Northern Westchester County Hort. and Agri. Soc.

Oct. 31-Nov. 1, Greenwich, Conn.—Fall Flower, Fruit and Vegetable Show of the Westchester and Fairfield Horticultural Society.

Nov. 1-5, Boston.—Grand Autumn Exhibition of Plants, Flowers, Fruits and Vegetables, Massachusetts Horticultural Society, Horticultural Hall.

Nov. 1 to 3, Tarrytown, N. Y.—Chrysanthemum show of the Tarrytown Hort. Soc. in Music Hall.

Nov. 8-10, New York.—Annual Chrysanthemum show of the American Institute, Engineering Society Bldg., 25-33 W. 39th St., New York.

Nov. 9-11, Lancaster, Pa.—Fall flower show.

Nov. 9-12, New York.—Fall exhibit Horticultural Society of New York at Museum of Natural History.

Nov. 11-19, New Orleans, La.—Flower show.

Nov. 14-15, Providence, R. I.—Flower show of R. I. Hort. Soc.

matter was brought up by Edward Nedomanski, who declares that a prize-winning aggregation can be gotten together. The big event of the evening was the annual crab feast given by Edward S. Schmid, and after the completion of the regular business of the evening those present went downstairs where long tables had been spread. A rising vote of thanks was tendered to Mr. Schmid and a number of speeches were made. Motion pictures were also exhibited, through the courtesy of Sidney B. Lust, of the United Film Service, and in addition there were pictures of the recent outings of Kallipolis Grotto, and in these Fred H. Kramer was one of the star performers. President Jenkins made a report on his mission as representative of the club in a conference with officials of the Washington Aquarium Society, which sought the co-operation of the florists in the running of a show here in November.

NEW YORK FLORISTS' CLUB.

The September meeting of the Club was well attended, considering the interruption to travel caused by the carmen's strike. Much of the time was spent in interesting accounts of the happenings of the summer, participated in by Secretary Young, H. A. Bunyard and the various chairmen of committees, the principal speaker being Joseph A. Manda who gave a very entertaining story of the Convention, the boat trip thereto by the New York members and the kind reception at New Orleans. A vote of thanks was extended to the florists of Houston and New Orleans. The expected lecture by A. Herrington was postponed until the October meeting on account of the death of Mr. Herrington's mother.

The "International" exhibition for next spring and the S. A. F. Convention for next summer were discussed and a glowing prospect for the greatest florist gathering ever had was voiced by Secretary Young. He stated that there is already a large call for exhibition space assignments. Vice-President-elect A. L. Miller added his enthusiastic promise for whole-souled effort to make 1917 a record year in the annals of New York horticulture and was the recipient of a vote of thanks for his gift of cigars. John Canning of Ardley was awarded honorable mention for an exhibit of *Salvia farinacea* and its white variety.

President Weston appointed Patrick O'Mara, Frank H. Traendly and Walter F. Sheridan a committee to prepare resolutions on death of W. F. Kasting and Chas. H. Totty, Peter Duff and Charles Knight a committee to prepare resolutions on death of Wm. Tricker.

NEW YORK DAHLIA SHOW.

Preparations are well in hand for the forthcoming Dahlia show, to be held by the American Dahlia Society in conjunction with the American Institute of the City of New York, at the Engineering Building, 25-33 W. 39th st., between Fifth and Sixth aves., New York. The show will be opened on Tuesday, the 26th, continuing over Wednesday and Thursday, and as the schedule of the American Institute is a lengthy one, and is amplified by the special prizes of the American Dahlia Society, keen competition from a wide section of the country around New York is expected. Silverware and medals are offered by the A. D. S., while money exclusively is offered by the American Institute, the total prizes running to over \$460.

Every section of the Dahlia is catered to and there are three divisions in the schedule for commercial growers, professional gardeners and amateurs, each being protected in their own division. Admission to the show will be free and it is hoped that with the present favorable weather, cooler nights and showers, such a Dahlia show as New York has not seen before will be staged.

Entries should be directed to William A. Eagleson, secretary of the

American Institute, whose office is at 322 W. 23d st., New York, but all information relating to the Dahlia Society, its work, membership and publications should be addressed to J. Harrison Dick, 1426 73d st., Brooklyn, N. Y.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

At the next meeting of the Gardeners' and Florists' Club of Boston to be held at Horticultural Hall, Boston, on Tuesday evening, September 19, at 8 o'clock, Prof. E. H. Forbush, State Ornithologist of Massachusetts will deliver a stereopticon lecture on "How the birds help us and how we help the birds." Mr. Forbush is an able and most interesting speaker and his subject being of supreme importance to every gardener and florist should attract a large audience. When the business session is completed a collation will be served, followed by dancing. Ladies are cordially invited to be present on this occasion.

W. N. CRAIG, Secretary.

CLUB AND SOCIETY NOTES

The monthly meeting of the Rhode Island Horticultural Society will be held in the Public Library, Providence, R. I., on Wednesday, Sept. 20. Prof. Paul Corriveau, Rhode Island State College, will lecture on fall work in the orchard. Business meeting, 7.45 p. m. Lecture at 8 p. m.

ERNEST K. THOMAS, Sec.
State College, Kingston, R. I.

The first annual exhibition of the Sayville, N. Y., Garden Club, held last week, surpassed all the expectations of the members, the combined exhibits making one of the most beautiful flower shows held on Long Island. The Sayville Opera House was taxed to its capacity in housing the exhibits, and in caring for the large throngs that attended the three sessions.

Among the prize winning exhibits were the following: Dahlias—J. S. Griffing, Flemington, N. J.; John Lewis Childs, Flowerfield; Jos. A. Becvar, Sayville. Gladioli—John Lewis Childs. Hardy Perennials—Miss Minnie Foster. Dinner Table Decoration—Jos. A. Becvar. Evergreens—Swan River Nurseries, Patchogue. Annuals, Asters, etc.—Mrs. F. S. Jones, gard. R. Kellenberg; Mrs. E. W. Betts, gard. Edw'd Berry; Mrs. R. W. Caldwell, Bayport, gard. D. Kwaak; Mrs. W. L. Suydam, Blue Point.

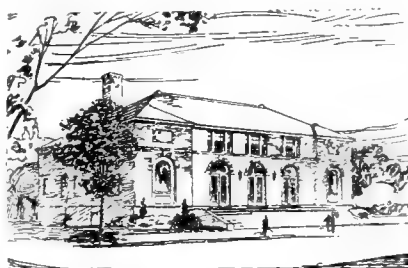
There was a large attendance at the annual flower show which opened in the town hall, Andover, Mass., on Friday afternoon, September 9, and the exhibition, although the entries were not so numerous as in previous years, was well up to the high standard in quality. At night the attendance increased and those present were greatly pleased with the exhibition.

Fottler, Fiske, Rawson Co., of Boston had an exhibit of gladioli as did J. H. Playdon and H. F. Chase and the two Andover florists' exhibits were the best ever seen here. John Nicoll, M. E. Gutterson, Thomas Low and William A. Trow were the principal prize winners. The judges were George Westland of North Andover, Frank Leith of Haverhill and George MacLeod of Lawrence.

PROPOSED NORTH SHORE HORTICULTURAL BUILDING.

The accompanying picture shows the architect's drawing of the proposed new building for the North Shore Horticultural Society, to be erected at Manchester, Mass.

The plans call for a building 88 by 70 feet, including two wings, the exterior to be of stucco and the interior of rough plaster. The exhibition hall will be 40x60 feet, having movable seats to accommodate 500 persons,



with a gallery extending across the rear and halfway along two sides to seat 160 more. There will be a stage 24x18 feet. The wings will contain dressing rooms, coat rooms, toilets, and the basement a large banquet hall, kitchen, dressing rooms for the stage, toilets, heating plant, etc. The building will be heated by steam and lighted by electricity.

The contract price for the building complete, exclusive of furnishings, is \$23,500. One member of the society has already contributed \$2000 to the fund, which is to be raised by subscription, and several other pledges of \$500 each have been received. It is expected construction will begin in a few weeks.

DURING RECESS.

Greenwood Florist Employees' Association.

Labor Day was observed by members of the Greenwood Florist Employees' Association of Brooklyn, N. Y., with an outing at Green Island. The affair was the first to be conducted by the organization. In athletic events winners were: James Daly, fat men's race, 100 yards; John Watson, one mile walk; Frank Keating, one and one-half mile swim; Daniel L. Donovan, sack race; James Kennedy, potato race; James Daly, low hurdle race, 500 yards; John Lyons, 880-yard run. The officers of the organization are: James J. Daly, president; James J. Kennedy, vice-president; George Gru, treasurer; John Watson, secretary.

Winterport, Me.—The greenhouses of Wesley Nickerson were badly damaged in the electrical storm and heavy hail of August 23.

Obituary

James Fitzgerald.

James Fitzgerald, formerly prominent in the retail florist trade, died in Long Island City, N. Y., on September 4, aged 74 years.

Wm. T. Bell.

William T. Bell, founder of the Bell Floral Company now conducted by his sons in Franklin, Pa., was instantly killed by a train on the Erie railroad while walking on the track on August 29. Mr. Bell was 73 years of age and was a native of Eals, Northumberland County, England.

John W. Graham.

An attack of indigestion, from which he had suffered for some time, proved fatal to John W. Graham, secretary and treasurer of the Philadelphia Lawn Mower Company, who died at his home, No. 6378 Overbrook avenue, Philadelphia, on Wednesday, September 6. He was 59 years old and a graduate of Chester Military Academy. His widow survives him.

William J. Newton.

Wm. J. Newton, florist, of Norfolk, Va., died of typhoid fever on August 29, aged 33 years. Mr. Newton was an enterprising young man, a credit to the flower business and of attractive personality. He was building up a very prosperous business and his demise in early manhood will be deeply regretted by many friends in the trade who knew him and liked him. He leaves a widow and two children. Three brothers are all engaged in the florist business in Norfolk.

Henry A. Salzer.

Henry A. Salzer, president of the John A. Salzer Seed Company, of La Crosse, Wis., was instantly killed in an automobile accident on August 22, near Dresbach, Minn.

Mr. Salzer was born January 23, 1855, at Dutch Creek, Iowa, and was the second son of John A. Salzer, founder of the John A. Salzer Seed Co. After the death of the elder Salzer in 1892, Henry A. Salzer became head of the concern, which under his management has become one of the leading seed houses in the country.

Mr. Salzer had also other large interests aside from the seed business, among these being the La Crosse Floral Company. Mr. Salzer is survived by his wife and two children.

Mrs. James T. Aldous.

Mrs. James T. Aldous, mother of Arthur Herrington, died on Sunday morning, September 3, aged 76 years. Mrs. Aldous was born at Tangmer, Sussex, England, and was married to William Herrington at the age of 21. Five children of this marriage survive. Mrs. Aldous came to America in 1907, accompanied by two daughters, on a visit to her son in Madison, N. J. She met James T. Aldous in

1909, and at the end of that year became his wife. Mr. and Mrs. Aldous then went west, and took up their residence in Iowa City. Mrs. Aldous was an intensely religious woman, and was unusually active in mission work. She had been an invalid for months and had been confined to her home much of the time.

John Boyle

Washington, D. C., on Monday last lost one of its oldest and best known members of the trade when John Boyle, of Silver Springs, Md., was called to his last home. Mr. Boyle was 79 years of age and for many years was a familiar figure in and around the Center Market, where he maintained a stand which was in the charge of his daughter, Miss Mary Boyle. At one time he was employed at the Botanic Gardens, under the late William R. Smith, and later he entered the service of the Department of Agriculture. When the late Mr. Saul's business, located on a part of what is now known as Saul's addition, was offered on the market, he secured possession. He later removed to Silver Springs, Md., where he continued in the business, raising flowers which he retailed at the market. Funeral services were held on Thursday, following which the interment was in Rock Creek Cemetery.

To Our Readers

Please

Look

Carefully

through the advertisements in this paper and you will surely

Find

Something

You

Want.

**You Can Never
Buy Cheaper
Than Now!**

Honest Advertising. Discontented Partners

Various Cases Brought Under Honest Advertising Laws.

In these articles I have several times discussed different phases of the honest advertising law, which has been enacted now in most of the States. In substance, all these acts are closely similar. They provide that anybody making false representations in any form of advertising as to the real value, or character, or brand, or origin, or quality of merchandise which he offers for sale, shall be guilty of a misdemeanor and subject to fine or imprisonment.

In some States the honest advertising law has been very vigorously enforced, in others it has not been enforced at all. In Pennsylvania, my own state, no effort worth the name has been made to do anything with it. The most effective campaigns which have been waged under advertising laws have been waged by associations of merchants formed for that purpose, or existing associations which added this as a new department.

When the states first began to pass honest advertising laws, I predicted that most prosecutions would be for false statements regarding the real value of a "bargain," or its former value. This prediction has not been entirely borne out. There have been a great many such cases, but at least an equal number have been brought for making false statements regarding the origin of goods offered as bargains, usually for offering them as goods bought at bankrupt sales when they were merely part of the regular stock.

I have rather closely followed the enforcement of these most useful laws and here present brief reports of several prosecutions brought under them in various places. One of the most interesting was brought in Spokane, Wash. Readers hereof will remember that when I predicted that most prosecutions would be for falsely representing a former or real value, where an article was offered for less, I admitted that this would be about the most difficult part of the act to enforce, because the actual value of an article was within certain limits a matter of opinion, and therefore it was going to be difficult to prove a given representation intentionally false. I showed by illustration how this could be done, however, viz., by producing testimony of expert witnesses that the article whose real value was given at such and such a

figure, had never sold for that and never in the nature of things would be sold for that. Where this evidence was available the defendant would be held to have known the fact.

The Spokane case was against a piano dealer who advertised "Weiler pianos, regularly \$400, on sale at the special price of \$195." Prosecution was begun, based on the charge that the representation that Weiler pianos were sold regularly at \$400, was false. At the trial it was shown that the Weiler piano cost \$75 at the factory and \$90 laid down in Spokane, and had never been sold at such a price as \$100. The advertiser was found guilty and fined.

In a case brought in Milwaukee, Wis., a local advertiser had for a long time been particularly extravagant in his price comparisons. "Real value," or "former value," or "worth," so much. Here the matter was cured without prosecution. The local merchants' association induced the newspapers to go to the advertiser and tell him that if he didn't moderate his comparisons he would be prosecuted.

In Indianapolis, Ind., a department store advertised "\$2 Medallions for 23 cents," and showed a picture of a framed medallion. The customer who went in after one found that the 23-cent price was for the medallion unframed, and the local association got the storekeeper to modify his advertising by stating that the medallions were unframed.

In another case which arose under the Indiana law, also in Indianapolis, an advertiser announced "the biggest sale of clothing in many years." The stock was represented to have been brought from a bankrupt sale. The fact was that only a small part of it had been; the balance was from the store's own stock. The concern was compelled to change its advertising to conform with the facts.

An exactly similar case transpired in Los Angeles, Cal., where a dealer advertised a bankrupt sale of pianos—"the entire stock" of a bankrupt concern—though he had bought only eight pianos from the bankrupt stock and the balance was his own. This man was prosecuted, pleaded guilty and was fined.

A New York City retail hat dealer committed a fraud which I am told has been widespread during the present season—he advertised for \$2.85, a "genuine Panama hat, value \$5, \$6 and \$7.50." The local association took the case up and brought prosecution. The "genuine Panama" hat was proved to be a cheap imitation from Japan. The defendant was found guilty and fined. His only defense was that the manufacturer of the hats had stamped "genuine Panama" inside, but this was not accepted. Under most honest advertising laws, this would not be

ANNOUNCEMENT

Commencing December, 1916, I shall disseminate

Crimson Carnation Doris

Awarded A. C. S. certificate at St. Louis, January, 1916, **scoring 88 points after being in the boxes on the trip 48 hours.** This will give some idea of its keeping and shipping qualities. Habit erect, producing an abundance of high-grade flowers on long stiff stems, fine color, calyx very seldom splits.

Price, \$12 per 100, \$100 per 1000

S. J. GODDARD, Framingham Centre, Mass.

a good defense, first because some of these laws do not require that the misrepresentation should be made knowingly, and second because the law would usually hold a man guilty who made representations that he did not absolutely know were true.

Some Suggestions for Discontented Partners.

The following, which comes to me from a Chicago paper, has a familiar sound:

Mr. A, senior member of a firm, owns two thirds of the business. Mr. B, junior member, owns one third. Mr. B gets one third of the profits and does most of the work. He has become dissatisfied and wishes to sell out. He has not sufficient money to buy Mr. A's interest, and Mr. A will not buy him out, for he needs him and his influence in the business. Now, the question is, if Mr. B finds a buyer for his one third interest, can Mr. A refuse to accept the buyer as a partner, thus compelling Mr. B to retain his interest in the business?

All over this broad land there are partnerships in precisely this situation. In fact, dissatisfaction between or among partners, over the feeling that one is doing more work than the other, or getting more money, is one of the chief drawbacks of partnership. My observation is that very rarely indeed do you find a combination of two partners—it is even rarer, I believe, with two partners than with more—which is so well matched that each member of it is satisfied with everything that the other does.

I have always advised men who came to me wanting to form a partnership, that this was the rock on which very many firms split, and that if such a situation arose, they would not find it as easy to get apart as it had been to get together.

I can answer this inquiry and discuss some generally interesting phases of partnership law at the same time.

This correspondent does not tell me what sort of a partnership agreement these people have. It may be merely a verbal understanding to yoke up together on certain terms, not for any particular period. Or it may be a for-

mal written agreement, as it should be, for a definite period.

If it is an informal partnership not for any specific period, either partner can withdraw from it any time he likes, merely by giving notice to his fellow partner. Some states (Arkansas and Louisiana) require the withdrawal to be done in good faith, and will not permit it to be done at what is obviously so inconvenient a time as to intentionally embarrass the firm. But in most states it can be done on reasonable notice at any time.

Of course a partner who withdrew in this way could expect to sell his interest. He would usually offer it to his fellow partners first, and if they refused, then to some outsider. The law will permit him to sell his interest to an outsider without restriction—but it will not admit his buyer to a partnership in the firm without the remaining partners' consent. In other words, the law will not force a partner on anybody. It will not create a partnership without both partners' consent. So that in the above case A can refuse to accept B's buyer as his partner, and this will usually block the sale, but not always. For the outsider who buys the outgoing partner's interest can always demand an accounting from the remaining partner, and this usually winds the firm up. If the remaining partner doesn't want it wound up, he will sometimes accept the new partner in order to avoid that.

All that a man gets who buys a partner's share in a business—if that share is one-half, say—is the right to one-half the firm's assets after all its obligations are paid. He doesn't get a share in a going business at all. The accounting which he can ask for is for the purpose of ascertaining the net assets and giving him his share.

Of course if the remaining partner accepts the buyer as his partner, there is no accounting, and the business goes on as before.

If the partnership agreement is formal and written, and is for one

year, say, either partner must wait until the year is out before he can withdraw, unless he wants to incur a damage suit for breach of contract. In Pennsylvania, Utah, West Virginia, Connecticut, Iowa and New Jersey, the law will hardly permit a partner to withdraw until the year is out. In other states he can do it, subject to the risk of suit for damages. The partner under such an agreement can sell his interest, just as a partner can under the other kind of an agreement, subject to the same legal restrictions.

The way to get an accounting in such a case is to go into court, either in an equity proceeding or in a common law accounting proceeding, and set forth that the partnership having been dissolved by the sale of one partner's interest to a third party, which third party has been refused admission to the firm by the remaining partner, accounting is demanded by the buyer of the outgoing interest.

I think I neglected to say that the sale of one partner's interest to an outsider automatically dissolves the firm.

How could B have avoided this situation in the beginning? Of course he could have done it by having a written agreement with A, binding either party, if the other withdrew and sold his interest, to accept the latter's buyer as a substitute. Usually neither partner likes this in the agreement, as it is almost too much to expect. Or the agreement could bind each of the partners to buy the other's interest in case of withdrawal. Outside of these or some modification of them there is no way in which such a situation could be avoided. It is one of the risks of partnership.

Copyright, August, 1916, by Elton J. Buckley.

NEW CORPORATIONS.

Houston, Tex.—Kuhlmann Floral Co., capital stock, \$40,000. Incorporators, H. H. Kuhlmann, Douglas B. Lacy, J. M. Powers, Jr. and H. H. Kuhlmann, Jr.

FERNS IN FLATS

Eight Best Varieties—200 Clumps to a Flat

\$2.00 per flat; 10 or more flats, \$1.90 each

A. M. DAVENPORT, Watertown, Mass.

HOLLAND GROWN BULBS

HYACINTHS, TULIPS, NARCISSUS, ROSE BUSHES, ETC.

Write for information about the *Mammoth Auction Sales* that we will hold during the coming Fall Season, of Holland's latest and choicest varieties.

THE MacNIFF HORTICULTURAL COMPANY

52, 54 and 56 Vesey Street The Largest Horticultural Auction Rooms in the World NEW YORK CITY

REMEMBER!

If it's a Hardy Perennial or so called Old Fashion Flower worth growing, we have it in one shape and another the year round. We have the largest stock in this country, all made in America, and our prices

will average 75c. per doz., \$5.50 per 100.

Why say more here? Send for our Wholesale Price List of varieties and benefit from the opportunities this affords you. Address

PALISADES NURSERIES, Inc.

R. W. CLUCAS, Manager.

SPARKILL - - - N. Y.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

HATBORO, PA.

BOBBINK & ATKINS

Nurserymen, Florists
and Planters

RUTHERFORD, NEW JERSEY

Nursery Stock

Fruit and Ornamental Trees, Shrubs,
Small Fruits, Clematis, Evergreens
and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS,
AZALEAS, CONIFERS, CLEMATIS,
M. P. ROSES, SHRUBS AND HER-
BACEOUS PLANTS.

P. OUWERKERK, 216 Jane St. Weehawken Heights
P. O. No. 1, Hoboken N. J.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY.
Small, medium and large sizes supplied.
Price list now ready.

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers in
America.

BOX 415, DUNDEE, ILL.

TREES

Largest assortment in New
England. Evergreens, deciduous
trees, both common and rarer
varieties.

Sturdy, choice stock that can be
depended upon. Send for cata-
log and special trade prices.

The Bay State Nurseries

North Abington
Mass.

SHRUBS

This New England and
climate produces fine sturdy
shrubs. Special trade prices.
By the thousands, hardy
Native and Hybrid Rhodo-
dendrons—transplanted and
acclimated. Let us estimate

BAILEY'S NEW STANDARD Cyclopedia of Horticulture

Six large quarto volumes.
More than 3,600 pages. 24
exquisite full-page color
plates. 96 full-page sepia
halftones and more than
4,000 text engravings. 500
collaborators. Approx-
imately 4,000 genera, 15,000
species and 40,000 plant
names.

The new Standard Cyclopedia of Horticulture has been freshly written in the light of the most recent research and experience. It is not merely an ordinary revision or corrected edition of the old Cyclopedia, but it is a new work from start to finish with enlarged boundaries geographically and practically; it supersedes and displaces all previous editions or reprints of every kind whatsoever. It is both an Encyclopedia and a Manual, for with the aid of its Synopsis and Key, amateur and professional alike may quickly identify any plant, shrub or fruit contained within the set, and then receive expert instructions for its cultivation. Price \$6.00 per volume. Four volumes have now been issued and the others will follow in succession. Order from

HORTICULTURE PUBLISHING CO.

147 Summer Street, Boston, Mass.

OLDEST AUCTION HOUSE

IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co.

42 Vesey St., New York

Large Xmas Peppers

Also BIRD'S EYE PEPPERS

Exceptionally Fine 4 Inch Stock at
\$8.00 per Hundred.

ALSO

ASPARAGUS PLUMOSA

4 in. pots at \$8.00 per Hundred
Extra Fine Stock for Planting Out

A. L. MILLER

JAMAICA, N. Y.

In Stock ROSE STAKES

EXTRA STIFF No. 9 GALV. WIRE
4½ feet—\$13.05 per 1000

CARNATION SUPPORTS

\$18.00 per 1000 plants.

THE CARNATION SUPPORT CO., Connorsville, Ind.

WHITMANII IMPROVED—\$5 per 100, \$40
per 1000.

WHITMANII COMPACTA—\$5 per 100, \$40
per 1000.

ROOSEVELTS—\$5 per 100, \$40 per 1000.

BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. - - - BOSTON

Telephone Main 58.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

Pedigree Pea Prices.

Since our crop report of the 9th, confirmation of our prediction that seed peas of pedigree stock will be desirable property has been received. We learn that sales aggregating several thousands of bushels have been made to Pacific coast buyers, and for export, ranging from 65c. to \$1.00 per bushel, above contracting prices of last winter and spring. These sales cover a considerable number of varieties, including Alaskas and the early large pods, as well as the late long pods. Europe will not be prepared to place any considerable stock of seed peas on our markets this year. There undoubtedly will be a ban placed on the export of edible peas by all European countries the coming year, both neutrals and belligerents. Thus far we have learned of just one quotation, and that at practically prohibitive prices. Varieties such as Alderman, Duke of Albany and Extra Earlies are listed above \$6.00 per bu.; English Wonder, \$8.50; Ameer, \$7.00; Daisy, American Wonder, Little Marvel, Telephone and Vanguard, \$8.50 to \$8.80; Laxtonian and Pioneer, \$9.75; Gradus and Thomas Laxton at \$6.50; Gems, \$5.10; other varieties proportionately high.

These quotations are all f. o. b., London or Liverpool, which means that at least another dollar per bushel must be added to cover freight, insurance and incidental expenses. After this comes the pertinent question—"shall we ever get them?"

Seed Bean Prospects.

While sales of peas in considerable quantities have been made we have learned of no growers nor dealer with sufficient hardihood to quote seed beans in quantity. We have heard of frost in central and western New York during the past week, but the bean crop of the Empire State is already so nearly a failure that it can suffer but little further damage from any source. Beyond this above report we have heard of no other damage to the general crop during the past week.

Garden Beets, Carrots, Etc.

European reports of very serious damage to garden beets and carrots should cause a sharp advance in values of these two important families of seeds. There are heavy shortages in other families of seeds and prices on many items are likely to reach higher levels than for several years, and it will be a serious problem to arrange an equitable list of prices the coming autumn and winter.

Rice Seed Co. Entertains.

The Jerome B. Rice Seed Co., entertained a number of prominent



SEEDS for the FLORIST

ASTERS QUEEN of the MARKET.

The best extra early variety, large, double flowers, on long stems, in colors: Crimson, Dark Blue, Light Blue, Rose Peach Blossom, White.

Trade Packet, 20c., Oz., 75c.

Sweet Peas, Cyclamen, Primulas, Lily of the Valley, from Our Own Cold Storage Plant.

Our Trade List Mailed on Application.

FOTTLER, FISKE, RAWSON CO., THE SEED STORE BOSTON
Faneuil Hall Square

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

seedsmen at their farm near Grass Lake, Mich., the past week. The visitors expressed themselves as having been highly interested and pleased, although the trials did not all reach the high standard of excellence set by the superintendent, George Starr, owing to the very erratic and unfavorable season.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending September 1, were recorded as follows:

Bulbs—France, \$1,832; Netherlands, \$37,292; England, \$3,245; Bermuda, \$225.

Plants, Etc.—Belgium, \$155; Italy, \$3; Netherlands, \$3; Costa Rica, \$64; British West Indies, \$66; Columbia, \$1,313; Venezuela, \$432.

Clover Seed—France, \$8,635.

Grass Seed—England, \$405.

Other seeds—Denmark, \$299; Italy, \$174; Netherlands, \$341; Argentine, \$15,013; Hongkong, \$15; Austria, \$2,249; Canary Islands, \$15,701; France, \$242; England, \$2,590; British West Indies, \$67.

Carbonate of Potash—Netherlands, \$10,781; Hongkong, \$142.

Other Fertilizers—England, \$36,832.

Seed Importation Act Amended.

The seed importation act of August 24, 1912, prohibits the importation into the United States of those seeds subject to the act when they are adulterated or contain three per cent. or more of weed seeds, or when clover and alfalfa seed contains more than approximately 90 seeds of dodder per pound.

This act was amended on August 11, 1916, by including the seed of ryegrass and vetch in addition to those seeds enumerated in the original act and by prohibiting the importation of seeds which contain less than 65 per cent. of pure live seeds, except that the seed of Kentucky blue grass and the seed of Canada blue grass may be imported when it contains 50 per cent. or more of live pure seed. The amendment fixing a minimum quality for imported seed is intended to keep out of the United States seed of low germination as well as seed containing large proportions of chaff, both of which

have been imported in large quantities in recent years.

The regulations for the enforcement of the seed importation act published as Treasury Decisions No. 35363 on May 6, 1915, and as Service and Regulatory Announcements, Bureau of Plant Industry, No. 2, May, 1915, are being revised to conform with these amendments and it is expected that they will be promulgated to be in effect on and after November 1, 1916.

BUSINESS TROUBLES.

Eber Poedlniak, florist, liabilities \$4,899.40, assets \$75.

Nashville, Tenn.—Harley Pottery Co., liabilities, between \$12,000 and \$15,000; assets, furniture, fixtures, machinery and open accounts, totaling about \$15,000. A voluntary petition in bankruptcy was filed with the clerk of the Federal Court.

KELWAY & SON

SPECIALIZE IN

SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or Forward

Only Address, LANGPORT, Eng.

MICHELL'S

...SEED
HOUSE

518 Market Street, PHILADELPHIA, PA.

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

Lilium Harrisii Bulbs

	Per 100	Per 1000
5 in. to 7 in.	\$5.00	\$40.00
7 in. to 9 in.	9.00	80.00
9 in. to 11 in.	22.00	

FREESIA REFRACTA ALBA

	Per 100	Per 1000
Mammoth Size	\$1.75	\$12.00

For Immediate Delivery

ROMAN HYACINTHS, 12-15**PAPER WHITE NARCISSUS
GRANDIFLORUS**

Prices on Application

J. M. THORBURN & CO.53 Barclay Street
Through to 54 Park Place
NEW YORK CITY**LILIUM GIGANTEUM
COLD STORAGE**

Extra Selected Stock. Gladiolus for forcing. Nanus, Colvilled or large flowering type. Greenhouse Fertilizers. Ask for 1916 Seed Catalogue.

Joseph Breck & Sons Corp., Seedsmen
47-54 No. Market St., BOSTON, MASS.**W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries**

166 W. 23rd St., NEW YORK

**Burpee's Seeds
PHILADELPHIA**BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLAN
FOR PROFIT**J. BOLGIANO & SON**WHOLESALE FIELD AND GARDEN SEEDS
Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.**KEYSTONE SNAPDRAGON**Best Winter flowering Pink Snapdragons on
the market. Per pkt., \$1.00; 6 pkts. for \$5.00.**S. S. SKIDELSKY & CO.**

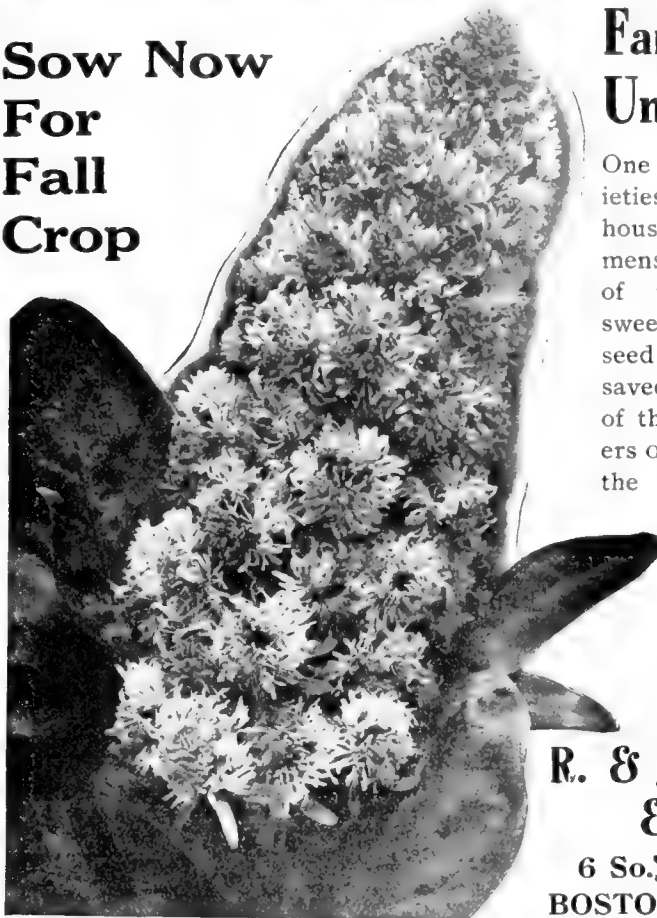
PHILADELPHIA, PA.

My new Price List of
WINTER-ORCHID-FLOWERING SWEET
PEA SEEDHas been mailed. If you have not received
a copy, send me postal. Part of new crop
will be ready early in July.**ANT. C. ZVOLANEK**

Sweet Pea Ranch Lompoc, Cal.

MIGNONETTE

IMPROVED ECLIPSE.

Superior to all others for winter bloom-
ing, exhibition, or cutting. Immense frag-
rant spikes 10 to 15 inches long. Green-
house grown seed from a re-selected strain.
Pkt. 25c., 1/16 oz. \$1.00. Catalogue upon
application.**THOMAS J. GREY CO., Seedsmen**
29 So. Market St., Boston, Mass.**MIGNONETTE****Sow Now
For
Fall
Crop****Farquhar's
Universal**One of the finest var-
ieties for the green-
house, producing im-
mense flower spikes
of reddish green,
sweetly scented. The
seed we offer was
saved for us by one
of the largest grow-
ers of Mignonette for
the Boston market.

Ounce \$15.00

1-4 oz. . . 3.75

1-8 oz. . . 2.00

1-16 oz. . 1.00

**R. & J. Farquhar
& Co.**6 So. Market St.
BOSTON, - MASS.**LEONARD'S SEEDS**

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.**AMERICAN BULB COMPANY**

172 N. Wabash Ave.

CHICAGO, - ILL.

We are now ready to book orders for French and Dutch
Bulbs, Lilies and other Florists' Necessities.

WRITE US FOR PRICES

POINSETTIAS**August Shipment**True type, fine 2½ inch plants, shipped in
paper pots, \$6.00 per 100, \$50.00 per 1000.**A. HENDERSON & CO.**

211 N. State St.

CHICAGO, ILL.

NEW CROP SEEDSPANSY SEED. Giant flowering florist mix-
ture. American grown. (Best money can
buy.) 50c. per tr. pkt., ¼ oz. \$1.50, oz. \$5.00.
PANSY SEED SPECIAL. Greenhouse mix-
ture for forcing; long-stemmed. \$1.00 per
tr. pkt., ¼ oz. \$1.50, ¼ oz. \$2.50; oz. \$8.00.
SWEET PEAS. Zvolanek's Orchid Flower-
ing in all varieties. I have his agency
this season.

ROMAN J. IRWIN,

Plants, Cuttings, Bulbs, Seeds.

108 West 28th Street - New York.

When writing Advertisers kindly mention Horticulture

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Cost of Calling Foreign Florists Made to profit

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

For KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for New York. Write or Phone to

MAX SCHLING

22 West 59th Street, Adjoining Plaza Hotel
Best Florists in the States as References.

EUROPEAN ORDERS EXECUTED.
Members of the Florists' Telegraph Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO**DAVID CLARKE'S SONS**

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, New York
Telephone 1452-1453 Columbus

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

WORCESTER, MASS.

Randall's Flower Shop

HARRY L. RANDALL, Proprietor.

Member Florists' Telegraph Delivery Association

Of Interest to Retail Florists

NEW FLOWER STORES.

Dover, O.—Alfred Klein.

Santo Rosa, Cal.—Leopold & Polard.

New Orleans, La.—Frank Reyes.
Canal street.

San Francisco, Cal.—Avansino Bros.,
Geary street.

Chicago, Ill.—Johnson & Spetz, 1924
E. 71st street.

Montreal, Canada—D. Bain, St. Catharine St., West.

New York, N. Y.—Siebrecht Bros.,
Inc., 43 W. 46th street.

Bellefontaine, O.—Eads Greenhouses, Short building, Columbus Ave.

Visitors' Register

New York—R. Vincent, Jr., White-marsh, Md.

Philadelphia—Henry A. Schultheis, Scanton, Pa.; Frank C. Suchy, San Antonio, Texas.

Pittsburgh—Julius Dilhoff, N. Y.; Joseph J. Goudy, representing Henry A. Dreer, Phila.; L. J. Sieger, representing Robert Craig Co., Phila.

Cincinnati—Jos. Hill, Richmond, Ind.; I. M. Bayersdorfer, Phila.; Miss Emma Constable, Blanchester, Ohio; A. Miller, Chicago; J. Molck, Jeffersonville, Ind.

Washington, D. C.—Roland H. Patch, National Soldiers' Home, Va.; Louis M. Massey, Agricultural College, Ithaca, N. Y.; A. B. Warren, Forest Hill Gardens, South Richmond, Va.; Julius Dilhoff, New York; Joseph J. Goudy, Phila., Pa.; Miss Ethel Burke, Lynchburg, Pa.

Chicago—Joseph Clarkson, Manistee, Mich.; R. J. Southerton, Hyland Park, Ill.; Geo. M. Brinkerhoff, Springfield, Ill.; Geo. Collins, Grand Rapids, Mich.; Ed. Kalish, St. Louis, Mo.; Aug. Kellner, Milwaukee, Wis.; Louis Kirch, Louisville, Ky.; E. N. Zetlitz, Lima, Ohio; A. Herrington, Madison, N. J.; W. J. Barnes, Kansas City Mo.

Cincinnati—Jos. Enneking has taken over the Max Rudolph store. The transfer took place the first of this month. Everyone is wishing him success in his venture.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address Dardsflor.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUDE BROS CO
1214 F ST NW
WASHINGTON DC

GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE National Capital

At your service to deliver Flowers or Designs on Order by Telegraph or otherwise. Prompt Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

J. B. KELLER SONS, FLORISTS

25 Clinton Avenue, N.

Rochester Phone 306. Long Dist. Bell Phone 2729
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEWPORT, R. I.

145 Bellevue Avenue.

WE GUARANTEE SATISFACTION
MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1838 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1832.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty

ASK FOR LIST
THOMAS ROLAND, Nahant, Mass.

KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 108 State
St.

Albany, N. Y.—The Rosery, 23 Steuben
St.

Albany, N. Y.—William C. Gloeckner, 97
State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont
St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1838 W. 25th
St.

Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

New London, Conn.—Reuter's.

Newport, R. I.—A. T. Bunyard, 145 Belle-
vue Ave.

New York—J. H. Small & Sons, 505 Mad-
ison Ave., at 52d St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—Max Schling, 22 W. 50th St.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

Penn The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 Tremont St., BOSTON

REUTER'S Members Florists
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence
ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists Telegraph Delivery Association

NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegram order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
106 STATE STREET, ALBANY, N. Y.



NEWS ITEMS FROM EVERYWHERE

CHICAGO.

Joseph Marks left this week to travel the territory east and north of Chicago for A. Henderson Co. Mr. Marks is a well-known and able salesman.

Johnson & Spetz add one more retail store to the south side at 1924 E. 71st street. This is not the Johnson of Johnson & Cronis, though he was formerly in their employ.

The A. Henderson Co. are just handling their second car of *Formosum* lilies from Japan. The stock is good and came through with little delay; a shipment of paper white narcissi is expected to arrive from France this week.

Geo. Gerasimo is proprietor of a new store at 6302 University avenue, under the name of the University Florist Co. As there was already a retail store, but a few blocks away, known as the University Floral Co., the names are confusing.

Ed. Vilter was the last of the Zech & Mann force to take a vacation. Mr. and Mrs. J. Schoepfle and daughter, 933 Belmont avenue, have returned from an extended eastern trip. Arthur Blome and Mrs. Blome are back from a two weeks' cruise on the Great Lakes.

Frank Oechslein's place on Harlem avenue, which he purchased recently, is now nearly in perfect working order. The houses have been overhauled and a carload of pipe has arrived from Birmingham, Ala., to connect the place with the city water. The four new Foley houses added to the old range are now completed and ready for planting.

The Civil Service Board of the West Chicago Park Commissioners will hold the following examination on the date and at the place given below. Application blanks may be obtained at the office of the Board in Union Park or at the West Park playgrounds.

Examination No. 225. Florist, Class G. Rank II. Original Entrance. Pay, \$80.00 to \$90.00 per month. To be held October 3rd, 1916, at 9:00 A. M., at the Garfield Park Pavilion. Open to men over 21 years of age, regardless of residence. Applications must be filed in the office of the Civil Service Board in Union Park before 5:00 P. M. of October 2nd, 1916.

Special Subject, weight of 6; Experience, weight of 3; Physical, weight of 1.

Special Subject: An oral and practical test in exhibition greenhouse work and written questions on the care and propagation of plants and general greenhouse operations.

The duties of Florist are general work in the conservatory and propagating house and in the outdoor gardens throughout the system.

FRED G. HEUCHLING,
Superintendent of Employment.
September 6, 1916.

PITTSBURGH.

Mr. and Mrs. Gilbert Weaklin celebrated the 13th anniversary of their wedding on last Saturday evening.

Representatives of the U. S. Dept.

of Agriculture and the Penna. Dept. of Agriculture attended the corn roast given last Tuesday evening in order to study the progress of the Pittsburgh Vacant Lot Garden Association. The families who cultivated the gardens under the auspices of the Association were the hosts for about 1,000 guests. Chancellor McCormick of the University of Pittsburgh and president of the Association presided.

Mr. and Mrs. Gustav Ludwig left early in the week for a trip to California. Mr. and Mrs. T. P. Langhans and Miss Langhans, have gone to Atlantic City for September. Miss Emma Maxwell of Wilkinsburg has returned from a three weeks' vacation at Van Buren Point, Lake Erie. Miss Eleanor Craig, her bookkeeper has returned to duty, following a three months' illness. W. M. Turner, and son have returned from a motoring trip through the east. James J. Higgins and family are in the Laurel Ridge range of the Alleghenies.

BOSTON.

Notice has been given by the Referee in Bankruptcy that a dividend of three per cent. has been declared on all unsecured claims against the estate of Sidney Hoffman.

A messenger service has been established in the Flower Exchange, with a system of receipt blanks, etc., which has already proved a popular convenience for both dealers and buyers.

Formal announcement has been made of the betrothal of Miss Alice M. Doyle of Brookline and Dr. Francis P. Jantzen of Commonwealth avenue. Miss Doyle is the daughter of the late William E. Doyle.

Arthur S. Thurston of Everett, Mass., has accepted a position as professor of floriculture at the Iowa State College at Ames, Ia. Professor Thurston received his education in the Everett schools and was graduated from the Massachusetts Agricultural College at Amherst.

The annual auction sale of choice of stalls in the Co-operative Market took place on Saturday, Sept. 9, W. W. Tailby, auctioneer. The first choice was sold to Robert Montgomery for \$71.00. The directors have now under consideration the abandonment of this method of assigning preferred positions and grading of stall rents according to position.

Owing to the infantile paralysis situation, the Board of Health have ordered the fall show of the Medford Horticultural Society abandoned and the society has notified its members to that effect. There were to have been given a number of prizes to children and others at the show, which usually is held in the Mystic Congregational Church, Medford.

PHILADELPHIA.

Morris Meyer, lately with A. M. Campbell, is now with the Philadelphia Cut Flower Co.

For the first time in many years there seems to be some little excitement here about the club election in October. Messrs. Farenwald and Therkindson are the nominees for president of the club, and Rust and Cowperthwaite for the secretaryship. It looks at this writing as if there would be some warm alignments.

James Griffin, one of the oldest and most successful of our local florists, is moving from Frankford to Torresdale. He has already a good range of glass up on his new place and has moved his orchid collection there at this writing. For a "back number" he seems to be progressing very nicely.

Dear Tom: I don't know how it will affect you, but it made me kind o' goosy to read on North Fortieth street the sign of "Delmer J. Colflesh, Undertaker."

We have some Colflesh boys in our business—the sons of J. Wm. Colflesh, for many years treasurer of the Florists' Club; but they are very live boys, and in spite of their name, they are not dead ones by any means.

NEW YORK.

The Macniff Horticultural Company had a very successful auction sale last Tuesday. The demand for bulbs was unexpectedly lively for so early a date and palms brought very good prices.

Richard Vincent, Jr., of White-marsh, Md., lectured before the Ladies' Club at Lawrence, L. I., on Thursday, Sept. 14. Mr. Vincent also visited Oyster Bay in the interest of the approaching Dahlia Show.

Wm. J. Elliott, the veteran plant auctioneer, promises something lively and interesting for all who attend his first reception for the fall season which is scheduled to take place on Tuesday, September 19. Bulbs and foliage plants will be the attraction.

Johnson & Millang, the up-town plant auction house report that their initial sale on Tuesday of this week exceeded their expectations. The attendance was mostly dealers and retail florists and they developed a good appetite for bulbs and decorative stock, ferns, etc.

WASHINGTON. D. C.

Miss Nellie Brueninger, of Gude Bros. Company, is spending her vacation on a ranch near Denver, Colo. Miss Brueninger is one of the best known women in the floral trade in this section, as well as one of the most popular.

Gude Bros. Company has placed an agency with Thomas J. Donovan, of 9 H street, N. W., who will take orders for flowers and designs. This establishment is directly opposite the big building of the Government Printing Office, and good trade should result from the placing of the agency.

BASKETS BASKETS BASKETS

BUY YOUR FALL SUPPLIES NOW

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Don't Miss This Chance

Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

1129 Arch Street, PHILADELPHIA, PA.

The Influence of Department Store Flower Selling

(A Paper Read Before the Chicago Florists' Club by Allie Zech.)

Mr. President and Fellow Members:

At the last meeting I promised to read a paper on whether it is harmful or beneficial to the flower business for the department stores to sell flowers at ridiculously low prices. There has much been said for it and against it. Some will say it makes new flower buyers because people buying from department stores would not go to a flower store to buy, but when they get in the habit of having flowers at home they will buy from the legitimate florist. Then others say it hurts the florists in a way, because the public gets to believe that flowers have no value and that the florists are "hold-up" people.

The department stores advertise cut flowers at a price that is less than the cost of producing the stock, such as carnations at 8 cents per bunch of 25, roses at 6 cents per dozen. The general public does not know a good flower from a poor one. A flower is a flower to them regardless of quality, therefore I say that the public should be educated in regard to the quality of the flowers. Just imagine a department store advertising roses at 12 cents per dozen the day before Mothers' Day, when the price in the market is \$2 and \$3 per 100 for the very shortest roses. Can the retailer sell his stock at these figures? One department store last year came out with a big ad. in the paper with lilies

at 19 cents a pot, saying that they were going to protect the public and not overcharge on flowers. Don't you think a thing like that hurts the flower business? In the wholesale houses it can be noticed at once; as soon as the department stores have a sale on flowers the retailers do not buy anything. When you ask them why they are not buying they answer, "If we buy we cannot sell, as people tell us they will go to the department stores and then we have to throw our stock away." The department stores do not give a rip for the florists. They do not make any money out of the flowers they sell but have found out it is a better way of getting customers into the store than any other item they can advertise. They are only selling flowers for an advertisement and not for a livelihood.

Now I will say that all three branches of the cut flower business are to blame for these conditions. Take the wholesaler; he is overloaded with stock; the buyer for the department store comes in, and the wholesaler unloads on him for a song. Now would it not be better if this stock was thrown in the barrel and the balance sold for a better price? In the end the wholesaler would sell say one-third of his supply and get as much if not more money than by unloading to the department stores. In the second place take the grower. When the market is glutted he ought to sort his

cut and send only the best to the market in place of sending in every flower whether good or bad. By sending only the best stock to the market during the glut he would cut down the supply and in that way retain the market. But most growers figure on how much they can cut, then they will say I cut so many flowers during the season, not saying how good they were. So if the grower would help in this way during a glut it would help to cut out the department stores.

Now in the third place take the retailer. He could help to cut out the department stores by buying more stock during a glut. The retailer of today does not carry a stock of flowers in his store. He buys a few and then waits for an order and goes to the market and buys just enough to fill his orders. When a glut comes in the market why does not every retailer buy a good supply and run a sale of his own, not let the department stores do it? He could sell many more flowers in this way. When stock is plentiful he could go to his wholesale house and order a large amount of flowers for a certain day, then go to the printer and get out some hand bills to be delivered by mail or by boys to every house in his neighborhood, letting the people know that he had made arrangements with the growers to supply him with a large stock for a certain day at a lower price than usual and that he wanted to give everybody in the neighborhood the benefit of this low price, and then sell this lot of flowers at a lower than usual figure. Don't you think in this way every retailer could dispose of more flowers and create more floral buyers? Another way for the retailer would be to buy a lot of flowers and put them in small boxes, say six to a box, and enclose a card with his compliments and have them delivered to all his customers or to all the people in his neighborhood. This would advertise the retailer, and also make new flower buyers, and the best thing it would do would be to eliminate the department stores from the flower business.

LET US SUGGEST to you during the
hot months of the year

BEAUTIES

\$1.00—\$3.00 dozen

Grown from young plants for summer blooming, is an item we can recommend to you. The flowers are of a fair size, good color and clean foliage. If you cannot get them elsewhere, try us.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964—1965

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists
RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE

Plantsmen and Florists

37 and 39 West 28th St., NEW YORK



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

226 DEVONSHIRE ST.,
Telephone, Main 6267-6268

BOSTON, MASS.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON September 14		ST. LOUIS September 11		PHILA. September 4	
Roses						
Am. Beauty, Special	20.00	to 25.00	15.00	to 25.00	20.00	to 25.00
" " Fancy and Extra	15.00	to 20.00	8.00	to 10.00	10.00	to 15.00
" " No. 1 and 1 1/2	3.00	to 8.00	1.00	to 5.00	4.00	to 8.00
Russell, Hadley	2.00	to 10.00	5.00	to 10.00	2.00	to 12.00
Killarney, Hillingdon, Ward, Extra	4.00	to 6.00	5.00	to 8.00	6.00	to 8.00
" " Ordinary	1.00	to 2.00	3.00	to 4.00	2.00	to 4.00
Arenburg, Radiance, Taft, Key, Extra	1.00	to 6.00	to	to	to	to
" " Ordinary	1.00	to 2.00	to	to	to	to
Ophelia, Muck, Sunburst, E. Per, Extra	3.00	to 8.00	5.00	to 8.00	6.00	to 8.00
" " Ordinary	1.00	to 2.00	2.00	to 3.00	2.00	to 4.00
Carnations	to	1.50	2.00	to 3.00	1.00	to 2.00
Cattleyas	40.00	to 75.00	30.00	to 40.00	75.00	to 100.00
Dendrobium formosum	6.00	to 30.00	to	to	50.00	to 60.00
Lilies	6.00	to 10.00	10.00	to 12.50	8.00	to 10.00
Lily of the Valley	4.00	to 6.00	4.00	to 5.00	4.00	to 6.00
Snapeadragon	.50	to 1.00	3.00	to 4.00	.50	to 1.00
Gladioli	1.00	to 3.00	3.00	to 4.00	2.00	to 4.00
Asters	.50	to 2.00	to	to	1.00	to 2.00
Dahlias	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00
Gardenias	20.00	to 25.00	to	to	to	to
Adiantum	to	1.00	1.00	to 1.25	.75	to 1.00
Smilax	10.00	to 15.00	12.00	to 15.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	20.00	to 25.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower MarketReports

BOSTON All business in the whole-sale district drags most depressingly this week. Receipts are not very heavy but such as they are there are very few customers for any line and prices on all sides have dropped materially from those demanded a week ago. Gladioli are not seen in the quantity displayed heretofore and the main crop is evidently on the wane. Asters have not increased in volume since last week and the quality seems to have gone backward. The aster crop, taken as a whole for the season, has been very far from successful but the prices obtained for them, regardless of quality of flowers, have been the highest ever known in this market and the growers cannot reasonably complain. Although in the very centre of the best dahlia growing section of the country, Boston has never developed any keen demand for the flowers for florists' use and even now at the height of the blooming season they are rarely seen in the wholesale markets in any noticeable quantity. Lily of the valley would be scarce if anybody wanted it but there is at present no call for it and it stands around unsought and often shop-worn before it is disposed of.

Since last report the **BUFFALO** market has taken a decided change throughout. The beginning of the week saw a liberal supply of good and poor quality of asters, gladioli, lilies, roses, Beauties and everything along the line was plentiful. Roses in particular are coming in heavy, and asters have improved. Business has been quite satisfactory with the merchants. Since the beginning of September many weddings have been heard from. It looks like a good autumn trade.

Trade conditions do not **CHICAGO** show any marked change. There is a gradual increase in the supply of the best grades of roses and orders can usually be filled without much difficulty. It has been a summer without a glut, and the average florist has had to pay higher prices for his flowers, but also he is nearer to making expenses than in the summers of the past. Carnations are still counted as of little importance. Chrysanthemums are confined to Golden Glow, which no great quantity have yet appeared. Asters are nearing the close of a season that has been unusual. The proportion of good ones though small has probably brought the returns up to average, however. Cattleyas are still very scarce. Lily of the valley is both



BEAUTIES

Growers are cutting from the young plants—fine color, good full flowers, good value from \$1.00 to \$3.00 per dozen.

DAHLIAS

This popular fall flower is improving every day. Price from \$15.00 to \$30.00 per 100.

Store closes daily 5 P. M.

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK
117 W. 28th St.

BALTIMORE
Franklin & St. Paul Sts.

PHILADELPHIA
1608-1620 Ludlow St.

WASHINGTON
1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	CINCINNATI September 11	CHICAGO September 11	BUFFALO September 11	PITTSBURG September 11
Roses				
Am. Beauty, Special.....	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00	..... to 25.00
" " Fancy and Extra.....	15.00 to 20.00	10.00 to 15.00	12.00 to 15.00	15.00 to 20.00
" " No. 1 and culls.....	4.00 to 10.00	5.00 to 10.00	4.00 to 10.00	2.00 to 8.00
Russell, Hadley.....	6.00 to 10.00	3.00 to 20.00	..... to	2.00 to 8.00
Killarney, Hillingdon, Ward, Extra Ord.	4.00 to 6.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Arenburg, Radiance, Taft, Key, Ex. Ord.	3.00 to 4.00	2.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Ophelia, Mock, Sunburst, Euler, Ex Ord.	4.00 to 6.00	..... to	8.00 to 10.00	..... to
Carnations	3.00 to 4.00	..... to	3.00 to 4.00	..... to
Cattleyas	1.00 to 2.00	..... to .....	..... to .....	..... to
Dendrobium formosum.....	50.00 to 60.00	50.00 to 75.00	50.00 to 60.00	..... to 50.00
Lilies	..... to .....	..... to .....	..... to .....	..... to
Lily of the Valley.....	8.00 to 10.00	8.00 to 12.00	8.00 to 12.00	8.00 to 10.00
Snappdragon.....	5.00 to 6.00	3.00 to 5.00	4.00 to 6.00	..... to
Gladioli.....	..... to .....	..... to	3.00 to 6.00	1.00 to 2.00
Asters.....	3.00 to 5.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
Dahlias.....	2.00 to 4.00	1.00 to 5.00	1.00 to 3.00	.50 to 2.00
Gardenias.....	3.00 to 4.00	..... to	1.00 to 3.00	..... to
Adiantum.....	..... to .....	..... to .....	..... to .....	..... to
Smilax.....	..... to 1.00	..... to 1.00	.50 to 1.00	1.00 to 1.25
Asparagus Plu. & Spren. (100 Bhs.)	15.00 to 20.00	15.00 to 18.00	..... to 15.00	..... to 15.00
	25.00 to 35.00	25.00 to 50.00	..... to 35.00	30.00 to 40.00

scarcer and small. Gladioli are not quite so much in evidence. Ferns, wild smilax and other greens are in abundance.

While business is **CINCINNATI** fair the receipts are coming in heavier than for some time and there is a tendency for stock to crowd up in the wholesale houses. The rose cut is much better in quality and quantity. Lilies again are plentiful. The receipts of asters are very heavy. Gladioli are still plentiful but are not as good as they were. Dahlias and cosmos are fairly plentiful and each has a pretty good market.

The quality of the **NEW YORK** product coming to this market is vastly improved. Roses are particularly good. Asters are seen in abundance in all grades but some are very fine. Golden Glow chrysanthemums are quite common and give a fallish tone

to the situation. But all this is of little use in the disarrangement caused by the street car men's strike and there is no business. It is an embarrassing and altogether unfortunate opening for an otherwise promising season.

PHILADELPHIA Stock has been coming in a little more freely while the demand has remained about even so that on the whole prices have sagged a little except on some special items such as cattleyas, lily of the valley, lilies and white roses. The aster growers explain their poor showing this year by the season being too wet in June and July. They also explain it further by saying it was too dry in August and September. "You pays your money and you takes your choice." Chrysanthemums are here. The early one Golden Glow is seen in moderate quantity. School 'and

(Continued on page 391)

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street

Telephone No. 755 Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5235, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE {608} MADISON SQ., NEW YORK
609

JOHN YOUNG & CO.
WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.
Tel. {1593} Mad Sq. 119 W. 28 St., New York
5433

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.
Wholesale Commission
READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE {2281} FARRAGUT 131 West 28th St., NEW YORK CITY
3089

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND

GARDENIAS, DAISIES, ROSES, CARNATIONS

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 2483 Farragut

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones {1664} Madison Square
1665

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending Sept. 10 1916	First Half of Week beginning Sept. 12 1916
American Beauty, Special	15.00 to 25.00	15.00 to 25.00
" " Fancy and Extra	10.00 to 15.00	8.00 to 15.00
" " No. 1 and culls	2.00 to 8.00	1.00 to 8.00
Russell, Hadley	2.00 to 8.00	1.00 to 8.00
Killarney, Hillingdon, Ward, Extra	3.00 to 6.00	3.00 to 6.00
" " Ordinary	1.00 to 2.00	.50 to 2.00
Arenburg, Radiance, Taft, Key, Extra	3.00 to 6.00	4.00 to 8.00
" " Ordinary	1.00 to 2.00	.90 to 3.00
Ophelia, Mock, Sunburst, Euler, Extra	4.00 to 8.00	4.00 to 8.00
" " Ordinary	1.00 to 3.00	.50 to 2.00
Carnations .....	.50 to 1.00	.50 to 1.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for do-
ing our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK
Phones 2036, 2037, 558 Farragut

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797-798-799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality.

114 West 28th Street

NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13—8510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 389)

church movements are affected by the infantile scare. This, of course, hurts the usual flower business in these lines.

Flowers of practically all kinds have again commenced to come in nicely, and business is brightening up proportionately. Especially large and fine dahlias are being received from the Dahliadale nurseries of Vineland, N. J., and disposed of as they are unpacked to fill the orders booked ahead. Roses of really fine quality are coming in about as required, and gladioli, which, heretofore have been entirely inadequate, are rapidly ascending to the emergency. Of carnations, of course, there are none, and asters still continue scarce, but the prospect for the late crop seems fairly encouraging.

The wholesale market is quite dull and overcrowded with stock not of extra good quality. Roses in all varieties are in plenty, but only fair in quality. Short in stem and prices cheap. Carnations are few. Asters are going still. There are a few chrysanthemums. Lilies are plentiful, but lily of the valley is scarce. Tuberoses and gladioli are enough. Cooler weather is needed to stimulate the market.

Business in Washington last week showed quite an improvement. The weather is cooler and fall weddings have commenced. Flowers are more plentiful and much improved in quality. Asters will soon be off the market; dahlias are more plentiful and are better than they have been. Carnations are more in demand with supply increasing. American Beauty roses are coming in fine shape. Cattleyas bring \$9 per dozen. Lily of the valley is almost unobtainable at times.

NEWS NOTES.

St. Clairsville, O.—Harry Humphreyville has purchased the business of the Morrison Greenhouse Co.

Glens Falls, N. Y.—Crandall Flower Shop suffered damage by a fire in the block in which it is located, on Wednesday, Sept. 6.

Ridgefield, Conn.—Peter Hornig, a florist, was struck and killed by an automobile owned by George L. Wilson, of 149 Broadway, N. Y., here on Monday, Sept. 11. His neck was broken. Coroner Phelan was communicated with, and, after learning the circumstances, released the automobile party, which was absolved from blame for the accident.

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 26-8

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Sept. 10 1916		First Half of Week beginning Sept. 12 1916	
Cattleyas	20.00	to 100.00	25.00	to 75.00
Dendrobium formosum	20.00	to 50.00	20.00	to 50.00
Lilies	4.00	to 8.00	4.00	to 8.00
Lily of the Valley	2.00	to 6.00	2.00	to 6.00
Snapdragon	.50	to 1.00	.50	to 1.00
Gladioli	.50	to 2.00	.50	to 2.00
Asters	.50	to 4.00	.50	to 4.00
Dahlias	.50	to 2.00	.50	to 2.00
Gardenias	10.00	to 25.00	10.00	to 25.00
Adiantum	.25	to .50	.25	to .50
Smilax	8.00	to 15.00	8.00	to 15.00
Asparagus Plumosus, & Spreng (100 bunches)	10.00	to 25.00	10.00	to 25.00

PROFESSOR JAMES G. SANDERS.

We present herewith the portrait of the gentleman who has been recently appointed State Entomologist at Harrisburg, Pa. Prof. Sanders is highly spoken of and much is expected from him in the way of useful work. He was born in Canton, Ohio, and is 36



PROF. JAMES G. SANDERS.

years of age. He has already had considerable experience in the Department of Agriculture at Washington, the University of Missouri and in Wisconsin where from 1915 to 1916 he served as State Entomologist and is at the present time also secretary-treasurer of the American Association of Official Horticultural Inspectors.

PERSONAL.

George Mellon, former carnation grower for Minott, Portland, has accepted a position as grower at the Barrows greenhouses, Gorham, Me.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK
Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission
Consignments of
Good Stock Solicited

PERCY W. RICHTER, Mgr., NEW YORK
111 W. 28th Street

HERMAN WEISS

Wholesale Florist

Experienced, Progressive and can handle
shipments of growers' product
satisfactorily.

106 West 28th St., NEW YORK
Tel. Farragut 3066.

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street
167 & 3058 Farragut NEW YORK

Established 1888

Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists

110 West 28th St., New York

We Solicit Consignments of New
England Grown Novelties.

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square
BOSTON, MASS.

Telephone 2618-2617-2616, Main.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACACIAS

Stuart Low Co., Enfield, Eng.
For page see List of Advertisers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

ADIANTUM FARLEYENSE GLORIOSA
Henry A. Dreer, Philadelphia, Pa.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

A. L. Miller, Jamaica, N. Y.
Asparagus Plumosus.
For page see List of Advertisers.
Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-LINGDALE GREENHOUSES, Collingdale, Pa.

AUCTION SALES

The MacNiff Horticultural Co.,
New York City.
For page see List of Advertisers.
Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.
Johnson & Millang, Inc., New York City.
Plants, Bulbs, Etc., at Auction.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.
August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price-
list.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.
A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.
R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

BEGONIAS.

Mrs. J. A. Peterson (New), 2½ in. pots,
\$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.
King Construction Co., North Tonawanda,
N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.
Lord & Burnham Co., New York City.
For page see List of Advertisers.
Hitchings & Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made.
Write for list. HOLTON & HUNKEL CO.,
Milwaukee, Wis.

BOX TREES

BOX TREES—Standards, Pyramids and
Bush. Price list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

BOXWOOD

August Rolker & Sons, New York City.
For page see List of Advertisers.

BULBS AND TUBERS

Hogewoning & Sons, New York City, and
Rynsburg, Holland.
Extra Selected Dutch-Grown Bulbs for
Fall Planting.

J. M. Thorburn & Co., New York City.
Hyacinth, Narcissus and Freesia Refracta
Alba Bulbs.

For page see List of Advertisers.
American Bulb Co., Chicago, Ill.
French and Dutch Bulbs.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
Lily Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Rainbow and Purity Freesias.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

The MacNiff Horticultural Co.,
Holland Grown Bulbs.
New York City.

For page see List of Advertisers.

Henry F. Mitchell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.
For page see List of Advertisers.

Fottler, Fliske, Rawson Co., Boston, Mass.
Mr. B. Progressive, Florist,
Everywhere, U. S. A.

Dear Sir: It will be a decided advantage
as regards prices and quality to place your
order with us.

Soliciting your order through this ad
cuts down the overhead selling expenses
and you positively get lower prices and
better quality. Our terms are liberal and
are a guarantee that you get a square
deal, all bulbs guaranteed true to name or
money refunded.

Write us and upon request we will mail
you our booklet giving prices f. o. b. New
York or Chicago, and we also cheerfully
furnish you with any information that
may be desired. Those of our friends who
will mail us a list of their requirements
will find it has paid them to do so.

Awaiting to hear from you at your pleas-
ure, we remain,
Yours very truly,
Westerbeek & Klyn,
Sassenheim, Holland.

Write to WESTERBEEK & KLYNN, 14
STONE ST., NEW YORK, N. Y.

BULBS AND TUBERS—Continued

Anglin & Walsh Co., Williamsbridge, N. Y.
Freesia Purity Bulbs.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CARNATIONS

F. Dörner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. J. Goddard, Framingham Centre, Mass.
Crimson Carnation Doris.
For page see List of Advertisers.

150 Mrs. Ward, 500 Winsor, 200 Pink En-
chantress, 1000 White Enchantress, 100 Per-
fection, 200 Lawson, \$6.00 per 100. Cash.
CHAS. H. CREEN, Spencer, Mass.

CARNATION STAPLES

Split carnations quickly, easily and
cheaply mended. Pillsbury's Carnation
Staple, 1000 for 35c.; 3000 for \$1.00 post-
paid. I. L. PILLSBURY, Galesburg, Ill.

CHRISTMAS PEPPERS

A. L. Miller, Jamaica, N. Y.
For page see List of Advertisers.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
Pompon Chrysanthemums.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Gattman & Raynor, Inc., New York City.
Emma, a Garza Anemone, Double
Pompon, pale pink.

CINERARIAS

2½-inch pots
Half dwarf, selected strains, best colors:
\$3.50 per 100, \$30.00 per 1000; 3-inch, \$5.00
per 100, \$40.00 per 1000.

Write today for our Plant Bulletin and
Bulb List, containing everything you need.

S. S. PENNOCK-MEEHAN CO.,
1608-1620 Ludlow St., Philadelphia, Pa.

DAHLIAS

ORDERS BOOKED ANYTIME

For Fall or Spring delivery. Wholesale and
Retail. Send for Catalogue. NORTHBORO
DAHLIA & GLADIOLUS GARDENS, J. L.
Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest,
Best. New color, new form and new habit
of growth. Big stock of best cut-flower
varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

For List of Advertisers See Page 371

EUONYMUS RADICANS

Euonymus Radicans. Several thousand, from rooted cuttings to sturdy plants four and five years old. This is a large leaf, quick growing variety of Radicans. It originated in this town and is extremely desirable. Price and sample plants on application. F. E. PALMER, INC., Brookline, Mass.

FERNS

A. M. Davenport, Watertown, Mass.
Ferns in Flats.
For page see List of Advertisers.

R. Vincent, Jr., & Sons Co., White Marsh, Maryland.
Boston Ferns.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FLORISTS' PLANT STOCK

Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FREESIAS

August Rolker & Sons, New York City.
Rainbow and Purity Freesias.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums S. A. Nutt, rooted cuttings, \$8.00 per 1,000; 2 1/2 in., \$15.00 per 1,000. First class stock. Cash. FRANK LEITH & SON, Haverhill, Mass.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

Glass 6 x 8, 8 x 10, 10 x 12, 10 x 14, \$1.65 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish goods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.
Pecky Cypress.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

John C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

Hitchings & Co., New York City.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS
Michigan Cut Flower Exchange, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

Palisades Nurseries, Inc., Sparkill, N. Y.
For page see List of Advertisers.

P. Ouwkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co., Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.
Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

INSECTICIDES

Hammond's Paint & Slug Shot Works, Beacon, N. Y.
Hammond's Thrip Juice No. 2.
For page see List of Advertisers.

INSECTICIDES—Continued

Aphine Manufacturing Co., Madison, N. J.
Aphine.

For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.

For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.

For page see List of Advertisers.

B. G. Pratt Co., New York City.
Whys and Wherefores of Fall Spraying.
For page see List of Advertisers.

IRIS

John Lewis Childs, Flowerfield, N. Y.
German Iris.

For page see List of Advertisers.

Pallida Dalmatica, the largest and best German Iris. Beautiful Lavender. Extra fine divisions, \$10.00 per 100; smaller size, \$8.00. Cash, please. BROOKLAND GARDENS, Woburn, Mass.

LILY BULBS

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Lilium Harrisli Bulbs.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hohmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Hatboro, Pa.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

R. & J. Farquhar & Co., Boston, Mass.
Trees.
For page see List of Advertisers.

P. Ouwkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Stuart Low Co., Enfield, Eng.
For page see List of Advertisers.

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Paul de Nave, Fall River, Mass.

Lager & Hurrell, Summit, N. J.

Stuart Low Co., Enfield, Eng.
For page see List of Advertisers.

PALMS

SINGLE PLANTS

Belmoreana, 4 -inch.....\$4.00 per 100
" 5 -inch.....75c. to \$1.00 each
" 6 -inch.....\$1.25 to \$1.50 each
Forsteriana, 2½ -inch.....\$2.00 per 100
" 4 -inch.....\$4.00 to \$4.50 per 100
" 5 -inch.....\$1.00 to \$1.25 each
" 6 -inch.....\$1.25 to \$2.00 each
" 7 -inch.....\$1.50 to \$2.50 each

Made up plants. Prices on application.

PHOENIX ROEBELENI

4-inch.....\$6.00 per 100
5-inch.....\$1.25 to \$1.50 each
6-inch.....\$2.00 to \$2.50 each
7-inch.....\$2.50 to \$3.50 each

Write today for our Plant Bulletin and Bulb List, containing everything you need.

S. S. PENNOCK-MEEHAN CO.,

1608-1620 Ludlow St., Philadelphia, Pa.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.

For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

Get the rare ones, true stock, Le Cygne, Solange, Tourangele, Mme. Jules Dessert, Mons. Martin Cabuzac, La France, Rosa Bonheur, Mignon, Therese, Germain Bigot, Primevere, La Fayette, Eugene Verdier. Send for list. D. W. C. RUFF, Buena Vista Gardens, St. Paul, Minn.

THE WORLD'S BEST PEONIES—Fifteen fine named Peonies for \$2.50, or 25 for \$5.00, all different and truly labeled, a chance to obtain a fine collection at half price, comprising such varieties as Festiva maxima, Delacbel, Achillea, Lady L. Bramwell, Couronne d'Or, Prolifica, Tricolor, Louis Van Houtte, and various other fine sorts. With any order of above for \$5.00 I will include one plant of Baroness Schroeder free. I have the largest stock in America of Lady Alexandra Duff (absolutely true) and many other fine varieties. Send for catalogue. W. L. GUMM, Peony Specialist, Remington, Ind.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.

Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.

"Riverton Special."

For page see List of Advertisers.

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

POINSETTIAS

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

PRIMULAS

Fred H. Lemon & Co., Richmond, Ind.
Primula Malacoides Rosea.

Primula Malacoides, extra strong plants ready to shift, \$2.50 per hundred. Cash with order. S. J. TOHER & SONS, 58 Concord St., Providence, R. I.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Crown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

ROSE STAKES

The Carnation Support Co.,
Connersville, Ind.

For page see List of Advertisers.

SASH

Standard Hot Bed Sash with cross bar, 80c. each; lots of 25 and over, 75c. each. Satisfaction guaranteed or money refunded. Glass 6 x 8, 8 x 10, 10 x 12 or 10 x 14, \$1.65 per box of 50 sq. ft. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh, Md.

For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.

Seeds with a Pedigree.

Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Gigantic Cyclamen.

For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
Mignonette.

For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Lochner & Co., New York City.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.

For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.

For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.

For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

SEEDS—Continued

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Mignonette, Improved Eclipse.
For page see List of Advertisers.

Roman J. Irwin, New York City.
New Crop Florists' Seeds.
For page see List of Advertisers.

Stuart Low Co., Enfield, Eng.
Cyclamen Seed.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Seeds for the Florist
For page see List of Advertisers.

SNAPDRAGONS

Keystone Snapdragons—100, 2½ in. pots, topped and branching, very good, healthy stock from seed, \$5.00 per 100.

Meirose—300 fine 2½ in. do., \$4.00 per 100.
C. H. LOTHROP, Lexington, Mass.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

SWEET PEA SEED

Arthur T. Boddington Co., New York City.
Winter Flowering Spencer Sweet Peas.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet Peas.

For page see List of Advertisers.

Stumpp & Walter Co., New York City.
Early Flowering Sweet Peas.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.

For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWOK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.

For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 2 Winthrop Sq.
For page see List of Advertisers.

For List of Advertisers See Page 371

WHOLESALE FLORISTS
Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 568-570 Washing-
ton St.
For page see List of Advertisers.

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 204-206
Randolph St.
For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 106 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 181 West 28th St.
For page see List of Advertisers.

Hentz & Nash, 55 and 57 W. 28th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Treadly & Schenck, 436 6th Ave., between
26th and 27th Sts.
For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

Woodrow & Markatos, 37 and 39 W. 28th St.
For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 53 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Guttman & Reynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunther Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 103 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

George W. Crawbuck Co., 57 West 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ransstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1008-20
Ludlow St.
For page see List of Advertisers.

WHOLESALE FLORISTS
Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 21 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.

New Offers In This Issue

**AUCTION SALE, HOLLAND GROWN
BULBS, DECORATIVE PLANTS,
EVERGREENS, ETC.**

Johnson & Millang, New York City
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

HARDY RHODODENDRONS.

John Waterer, Sons & Crisp, Ltd.,
Bagshot, England.
F. Gomer Waterer, Hotel Manhattan,
New York City.
For page see List of Advertisers.

HARDY ROSES AMERICAN GROWN.

August Rolker & Sons, New York City.
For page see List of Advertisers.

**NEW AUTOMATIC VALVE FOR
YOUR OVERHEAD MAINS.**

Lord & Burnham Co., New York City.
For page see List of Advertisers.

NEW CARNATION COTTAGE MAID.

Cottage Gardens Co., Inc., Queens, N. Y.
For page see List of Advertisers.

SEEDS, SELECTED STRAINS.

Kelway & Son, Langport, England.
For page see List of Advertisers.

**TREES, SHRUBS, VINES and
HERBACEOUS PERENNIALS**

By JOHN KIRKEGAARD

Formerly Assistant to Director of the Royal
Botanical Gardens, Copenhagen, Denmark.
Latterly Twenty Years in American For-
estry and Botanical Work.

Assisted by DR. H. T. FERNALD,

Professor of Entomology Massachusetts
Agricultural College and Entomologist,
Massachusetts Agricultural Experiment
Station.

and PROF. E. A. WHITE,

Professor of Floriculture, New York State
College of Agriculture at Cornell Univer-
sity.

A Great Book A Beautiful Book
A Comprehensive Book
A Practical Book By Practical Men
There Is No Other Book Like It

410 Pages. Planting Plans. Tabular De-
scription and Classification of Species. 59
Full-Page Illustrations in Tint. Authorita-
tive Articles on Many Subjects.

New Edition

BEAUTIFULLY BOUND IN CLOTH

Price only \$2.50 net. Mailing

Price, \$2.71. Money-Back

Guarantee

Order it from **HORTICULTURE**
147 Summer St., Boston

WANTS, FOR SALE, ETC.

Advertisements in this column
one cent a word. Initials count
as words. Cash with order. All
correspondence addressed "Care
HORTICULTURE" should be sent
to 147 Summer St., Boston.

HELP WANTED**GARDENER WANTED**

For large private estate, Belgian pre-
ferred, with administrative ability to
take care of large country place. Must
understand growing vegetables and
fruit under glass and be a general
around first class man. Position will
be permanent if satisfaction is given.
Apply by letter, stating age, experi-
ence, salary expected, etc. Strictly con-
fidential. Address ???, care **HORTICUL-
TURE**, Boston, Mass.

WOULD like to consult intelligent re-
fined young lady having some knowledge
of floral design work and store require-
ments for small flower store to be opened
in Boston. "R. H." care **HORTICUL-
TURE**.

WANTED—Second man on commercial
place; full experience not necessary. A
good chance to advance. Single and good
character. Address A. J. COLBURN, 68
Grayham St., Gardner, Mass.

WANTED: A young man with experi-
ence in landscape work, draughting, etc.,
as assistant in our landscape department.
BERTRAND H. FARR, Wyomissing Nur-
series Co., Wyomissing, Pa.

SITUATIONS WANTED

Gardener with first-class references, 30
years old, married, no children. Experi-
ence in and outdoors on well-known private
places. Address "R. S." care **HORTICUL-
TURE**, Boston.

Gardener and caretaker, married, no
family. Practical knowledge in routine;
greenhouse, vegetables, flowers and fruits.
Sober, active, industrious and trustworthy.
"X. Y. Z." **HORTICULTURE** Office.

FOR SALE

TO RENT, LEASE OR FOR SALE—Six
greenhouses and one acre land. For par-
ticulars write **FREDERICK S. FOLL-
WELL**, 24 Charles St., Pittsfield, Mass.

THE NUT-GROWER

The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

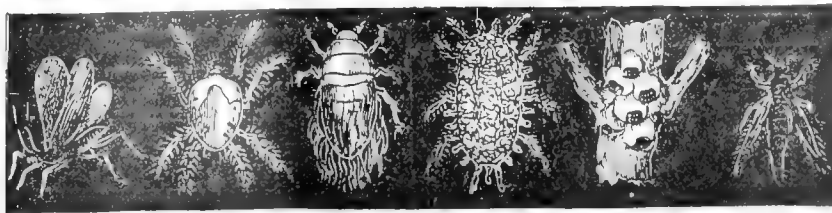
WAYCROSS, GA.

In writing to Advertisers kindly mention Horticulture

Hammond's Thrip Juice No. 2

REGISTERED

A Contact Insecticide, Useful and Reliable, Used for 30 Years in Greenhouses, and on Plants, Grape Vines, Trees and Shrubs



Some common Sucking Insects, magnified.

HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.

BELGIAN SHIPMENTS IMPROBABLE.

Our Washington representative informs us that there seems little likelihood of American florists being able to get any Belgian horticultural products because of the stand taken by the British and the German Governments, the latter declaring that it will not permit exportation unless the money therefore is paid into their hands, while the former will not agree to the release of the goods because of the fact that the money may come into German hands and thus be used against the Allies in hostilities. William F. Gude and C. B. Knickman, on Monday last, visited the State Department, as well as the British and German Embassies in an effort to secure some relief, but they feel that their visit was of little or no avail.

On the other hand, a leading New York importing house informs us that their latest news from Holland—date up to August 23—gives hopes that the efforts of the Chambre Syndicale des Horticulteurs at Ghent will be successful in obtaining the export

permission from the German provisional government, the same as they succeeded in the end last year, though at present such objection to the export is not yet officially removed.

We are also informed that Holland insurance companies will not agree to cover this season any extra risks of damage by delay or detention.

CATALOGUES RECEIVED.

F. & F. Nurseries, Springfield, N. J.—Trade List of Nursery Stock for Fall, 1916.

Peth & Duggan, New York Autumn Catalogue of Bulbs, Seeds and Garden Supplies.

Wm. Elliott & Sons, New York—Flowering Bulbs, 1916. A general catalogue of good quality.

Conard & Jones Co., West Grove, Pa.—New Floral Guide, Autumn 1916. Bulbs, Roses, Peonies, Hardy Border Plants, etc.

Storrs & Harrison Co., Painesville, Ohio.—Autumn Catalogue No. 3, 1916. Devoted to bulbs and general plants for greenhouse or garden.

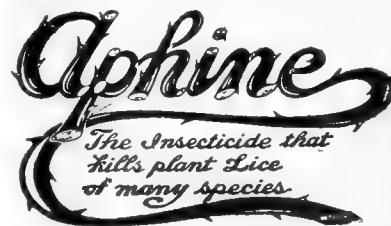
Henry F. Michell Co., Philadelphia, Pa.—Wholesale Price List of Bulbs, etc., for September, October, November, 1916. A large, fully illustrated and comprehensive publication.

R. & J. Farquhar & Co., Boston.—Autumn Catalogue 1916. This 84 page catalogue is the handsomest fall issue this house has ever put out. A green toned ink has been used which brings out the numerous cuts of bulb and shrub flowers with pleasing effect. The Regal Lily forms the chief cover subject.

THE PAPER FAMINE.

Now while paper is so scarce,
Cut it short.
Please omit the frills and airs.
Cut it short.
If you've anything to say,
Say it in the briefest way;
Paper costs a lot today;
Cut it short.

If you feel like writing verse,
Cut it short.
Make it vital, pithy, terse,
Cut it short.
If you wish your words to glisten
And would have the whole world listen,
Shape your poem 'bout like this'n,
Cut it short. —*Boston Traveler.*



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.
Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 1% nicotine solution properly diluted for fumigating or vaporizing.
Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products **FUNGINE**, **VERMIN** and **SOLALINE** will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on **APHINE** and **NIKOTIANA**.

Aphine Manufacturing Co.
MADISON, N. J.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago



IMP. SOAP SPRAY

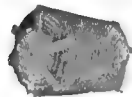
Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write
EASTERN CHEMICAL CO., BOSTON

Whys and Wherefores of Fall Spraying

is the title of a little booklet, giving seven reasons, official and non-official, why it is the best time to spray. This booklet will be sent out by the B. G. Pratt Co., 50 Church St., New York, manufacturers of the well-known "SCALECIDE" at a very early date. If you are not on their mailing list, send them a postal today giving the number of your trees and your dealer's name and you will receive a copy free. Address Dept. 12



NON-KINK WOVEN HOSE

In any length (one piece) with couplings, 14c. per foot. Unequalled at the price. Remnants, shorter than 50 feet, 10c. per foot, with couplings.

HOSE VALVE—70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.



NIKOTEEN
For Spraying
APHIS PUNK
For Fumigating
Ask Your Dealer For It.
NICOTINE MFG. CO.
ST. LOUIS

Est. 1765

Inc. 1904

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**KING CONSTRUCTION COMPANY, North Tonawanda, N. Y.****GREENHOUSES****We Claim Maximum Strength and Minimum Shadow. Investigate**

BOSTON OFFICE: 113 State St., Boston, Mass.

PHILADELPHIA OFFICE: Harrison Building, 15th and Market Sts., Philadelphia, Pa.

DREER'S "Riverton Special" Plant Tub

No.	Diam.	Ea.	Doz.	106
10	20 in.	\$1.60	\$17.50	\$145.00
20	18 in.	1.45	15.50	130.00
30	16 in.	1.10	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.**GREENHOUSES BUILDING OR
CONTEMPLATED.**

Norman, Okla.—W. A. Rowe, one house.

Aurora, Neb.—F. A. Davidson, one house.

Clarkston, Mich.—Mrs. F. H. McClaughry, one house.

Quincy, Mass.—John Fisher, 96 North street, one house.

Niles, Mich.—Adelbert Cemetery range of Garland houses.

Marshall, Wis.—Spokane Greenhouse Co., house 35 x 150.

New Bedford, Mass.—James W. Wooler, 41 Highland street, one house

Toughkenamon, Pa.—Richards Bros., Lord & Burnham boiler house, 35 x 40.

Havre de Grace, Md.—Leonard Richards, range of Lord & Burnham houses.

Utica, N. Y.—Edward Whitton, Walnut & York streets, house 40 x 125, completed.

Washington, D. C.—Georgetown Visitation Convent, Lord & Burnham house, 18 x 70.

STANDARD FLOWER**POTS**

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts., Washington, D. C.

**FREAKISH FACTS AND FACKLESS
FREAKS.**

Edward G. Murphy, a 70-year-old Waverly farmer, lays claim to attaining 900 per cent. efficiency in corn raising. He has sent the Post freak vegetable editor proof in the form of nine ears of green corn growing where ordinarily only one grows. Farming is only a sideline with Mr. Murphy. He is a blacksmith for a big express company at its stables in Boston. He leaves home at 5.30 every morning on week days and gets home around 6.30 at night. The rest of his spare time he devotes to farming.

—Boston Post.

Petersburg, Ind.—J. W. Wilson, an attorney of this town, has a dead South Carolina poplar tree back of his law office. Several months ago he noticed a sprig of green sprouting from one of the limbs. He knew the tree was dead, and watched the sprout until now it has grown into a large sunflower bush that will be ready to bloom in a few days. There is no way to get moisture to the sunflower and the limb is less than two inches in diameter, yet it has withstood the drought while vegetation on the earth has perished.

—Boston Traveler.

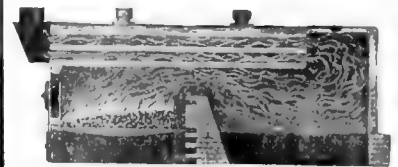
A certain Worcester woman, whose hobby is floriculture, is a bit suspicious of employees of the agricultural department in Washington and friends that contributed seeds for her garden. Early in the season she planted the contents of a seed package, according to printed directions. Day by day she watered her garden plot, kept the earth in which she planted the seeds soft, and waited patiently for chrysanthemums to sprout. She was rewarded a few weeks ago when she saw tiny sprouts in the garden and decided that she was to have flowers of the dwarf variety. She was doomed to be disappointed, however, because a caller well versed in horticulture, exclaimed when he saw the greenery, "What nice lettuce you are going to have." Now the woman is wondering if some one mixed the seeds in the package before or after they left Washington.

—Worcester (Mass.) Post.

PATENTS GRANTED.

1,196,889. Manufacture of Fertilizers. David Shields, Edgeworth, Pa.

1,197,414. Insect Destroyer. Ninian S. McCracken, Nixon, Texas.

**KROESCHELL
BOILER****SEND FOR CATALOGUE****KROESCHELL BROS. CO.**
466 W. Erie St. Chicago, Ill.**When You Speak**

of ADVANCE Sash Operating Device you always think of these important features: quality, satisfaction and price. What more can be expected besides service, and we have that too. Greenhouse Fittings also. Get a Catalog.

ADVANCE CO.
Richmond, Ind.**MASTICA**For Greenhouse
Glazing
USE IT NOW**F. O. PIERCE CO.**
12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

FOLEY MATERIALS

ARE THE BEST FOR
Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, - - - - - CHICAGO, ILL.

CYPRESS GREENHOUSE STOCK

PECKY CYPRESS BENCH STOCK

HOT BED SASH

Ask for Circular D and Prices

THE A. T. STEARNS LUMBER COMPANY
NEPONSET, BOSTON

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

GLASS

GREENHOUSE MATERIAL
HOT-BED SASHES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

Dror's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DROR,
716 Jackson Street,
Philadelphia.

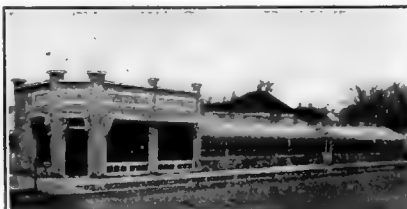
**FULL
SIZE
No 2**



THE FLORISTS' HAIL ASSOCIATION

Is a mutual organization, insuring greenhouse glass against hail. Both commercial and private establishments are accepted. For particulars, address

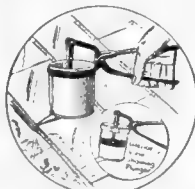
John G. Esler, Sec., Saddle River, N. J.
Insure Now.



EVERYTHING FOR THE GREENHOUSE

John C. Moninger Company

CHICAGO 922 Blackhawk St. NEW YORK 812 Marbridge Bldg.
CINCINNATI, 2314 Union Central Bldg.



Seal-tight liquid putty at \$1.25 per gallon.
METROPOLITAN MATERIAL CO.
1392-1414 Metropolitan Ave., Brooklyn, N. Y.

Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

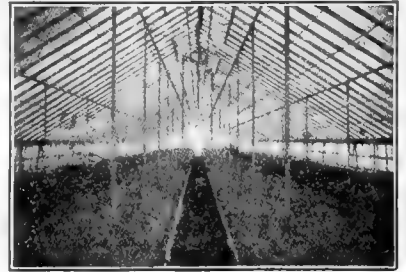


Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

METROPOLITAN GREENHOUSE RESULTS



The successful operation of your contemplated greenhouse, depends largely upon the previous results shown by your builder.

It is but fair to assume that what we have accomplished for others, we can accomplish for you.

We have been building greenhouses for so many years that there must be a Metropolitan Greenhouse near you. If not, write us and we will gladly send you a list of Metropolitan Greenhouse owners, then you can see for yourself about their results.

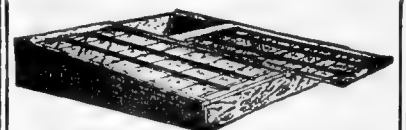
Put Your Greenhouse Problems Up To Us

We go anywhere in the U. S. to submit plans and prices.

METROPOLITAN MATERIAL CO.

Patented Greenhouses

1392-1414 Metropolitan Ave., Brooklyn, N. Y.



HOTBED SASH at 75c. each

Made of best grade Gulf cypress.

Glazed Hotbed Sash up to \$1.65 up.

Double Light Sash from \$4.00.

We carry a large stock of all sizes.

Write us for estimate.

S. JACOBS & SONS

1359-1385 Flushing Avenue BROOKLYN, N. Y.

PATENTS

Trademarks
and Copyrights

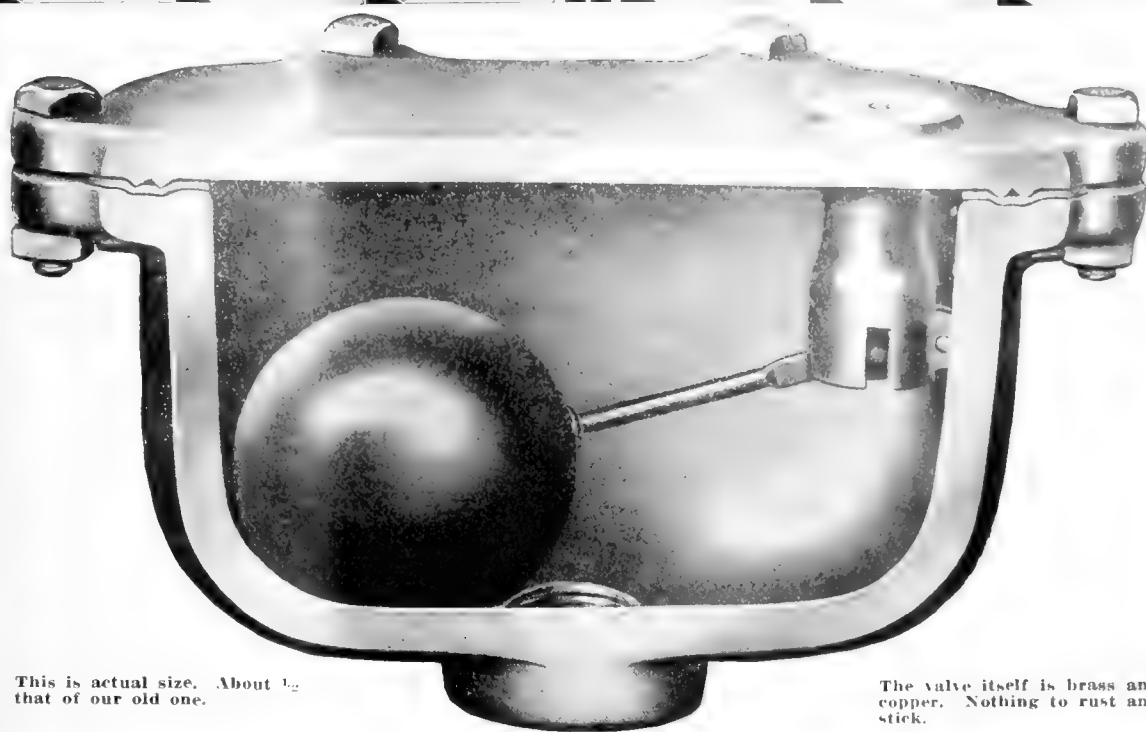
Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms.

Address,

SIGGERS & SIGGERS

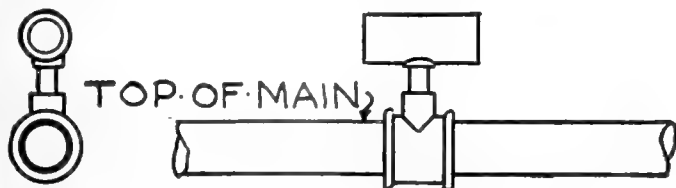
PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



This is actual size. About $\frac{1}{2}$ that of our old one.

The valve itself is brass and copper. Nothing to rust and stick.



A rough sketch of the old one, by way of comparison.



Just the way it looks from the outside.

New Automatic Valve For Your Overhead Mains

IT'S a great improvement over that big barrel shaped one we used to make. It's less than half the size. Simpler in construction. Easy to connect up. Easy to clean.

Just tap in a connection at the highest point of your mains, screw on this Little Marvel Valve and forget it.

Day and night it's there, automatically working, freeing the mains from all air pressure, and increasing your heating system's efficiency.

Considering how carefully it's made; the accuracy with which it works; and the added efficiency it gives your heating; the price we ask for it is ridiculously low.

Send for price.

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

SALES OFFICES:

NEW YORK 42nd Street Bldg.	BOSTON Tremont Bldg.	PHILADELPHIA Widener Bldg.	CHICAGO Rookery Bldg.	ROCHESTER Granite Bldg.	CLEVELAND Swetland Bldg.
TORONTO, CANADA, Royal Bank Bldg.			MONTREAL, Transportation Bldg.		

FACTORIES: Irvington, N. Y. Des Plaines, Ill. St. Catharines, Canada



Putting Practical Practice Into Practice In Building Greenhouses For the Schools of the West and East

WHY shouldn't children be taught about plants—real live, living, growing plants; instead of pictures of them, or uninteresting dried up specimens; or those preserved in alcohol?

Why shouldn't a knowledge of real plant life be a part of their education, quite as much as many of the other things that are taught?

This early teaching means a greater, a larger love of flowers; which in turn eventually means a greater demand for flowers; which again in turn means more sales and more money for the growers.

Ever think of it that way?

With the Boards of Education all over the country waking up to the importance of teaching, talking and living with flowers in the schools, it's easy to see that there is going to be no great danger of growers "over building" for some time to come.

When you teach the children about flowers, you teach and influence the parents also.

Don't lose sight of that fact!

In the last three years we have built greenhouses for close to a hundred schools and institutions. Yes, more than a hundred.

The houses illustrated adjoin one of the splendid schools for which Minneapolis is justly famous.

One is used for a regular growing house; the other as a sort of plant laboratory and class room.

Last Fall we put one on the tip top roof of a New York school. It was the only place in that crowded district, where fresh air and light and sunshine was in abundance.

Among some of the others we have built, are:

Deerfield Township High School, Highland Park, Ill.
Ohio University & Normal College, Athens, Ohio.
State Training School, Red Wing, Minn.
Chisholm High School, Chisholm, Minn.
Montevideo High School, Montevideo, Minn.
Kentucky Agric. Exp. Station, Lexington, Ky.
Conception Abbey, Conception, Mo.
Montana Agric. College & Exp. Sta., Bozeman, Mont.
Agricultural College, Urbana, Ill.
Owatonna Public School, Owatonna, Minn.
Maddock School, Maddock, N. Dak.
State Normal School, Mayville, N. Dak.
South Dakota Agric. Exp. Station, Brookings, S. Dak.
University of Nebraska, Lincoln, Neb.
Colorado Agric. Exp. Station, Ft. Collins, Colo.
Washington State College, Pullman, Wash.
St. Vital Agric. College, Ft. Garry, Man., Canada.
Agricultural College, Ames, Iowa.
Missouri Botanical Garden, St. Louis, Mo.
University of Nevada, Reno, Nev.
And Many Others.

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

SALES OFFICES:

NEW YORK
42nd Street Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Widener Bldg.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

CLEVELAND
Sweetland Bldg.

TORONTO, CANADA, Royal Bank Bldg.

MONTREAL, CANADA, Transportation Bldg.

FACTORIES: Irvington, N. Y. Des Plaines, Ill. St. Catharines, Canada.

Vol. XXIV
No. 13
SEPT. 23
1916

HORTICULTURE



Lilium Sargentiae

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription, \$1.00

QUALITY FIRST

When Ordering **HOGEWONING'S**
Extra Selected Dutch-grown Bulbs for Fall Planting
 You Order the Best Obtainable

SINGLE EARLY TULIP BULBS

	100	1000
Artus. Dark red.....	\$0.70	\$6.00
Couleur Cardinal. Purplish red	1.20	10.00
Crimson King. Scarlet.....	.80	7.00
La Belle Alliance. Scarlet...	1.00	9.00
Vermillion Brilliant. Scarlet...	1.20	10.00
La Reine. White, pink shaded.	.70	6.00
L'Immaculee. Pure white....	.70	6.00
Cottage Maid. Striped pink...	.70	6.00
Rose Grisdelin. Pink.....	.70	6.00
Pink Beauty. Extra fine.....	1.80	16.00
Chrysolora. Pure yellow.....	.80	7.00
Mon Tresor. Pure yellow;		
early .....	.90	8.00
Yellow Prince. Yellow, shaded		
red .....	.70	6.00
Keizerskroon. Brilliant red...	1.40	12.00
Prince of Austria. Deep orange.	.90	8.00
Proserpine. Cherry rose.....	1.40	12.00
Mixed. All colors; extra fine...	.70	6.00
Separate Colors. Extra fine...	.70	6.00

DOUBLE EARLY TULIP BULBS

	100	1000
Imperator Rubrorum. Red....	\$1.40	\$12.00
Murillo. Pink; very fine.....	.90	8.00
Couronne d'Or. Deep yellow;		
extra	1.40	12.00
Titian. Red, edged yellow...	1.00	9.00

DARWIN TULIP BULBS

	100	1000
Allard Pierson. Dark Brown...	\$1.20	\$10.00
Baronne de la Tonnay. Rose...	2.00	18.00
Clara Butt. Bright rose; extra	1.10	10.00
Gretchen. Soft salmon rose...	.90	8.00
Kate Greenaway. White, with		
lilac	1.20	10.00
Loveliness. Satiny rose.....	1.40	12.00
Pride of Haarlem. Cherry red.	1.40	12.00
Orion. Bright red, large flower	1.40	12.00

HYACINTH BULBS—First Size

For Forcing and All Other Purposes

	100	1000
Gertrude. Rose pink.....	\$3.80	\$34.00
Gigantea. Light pink.....	3.80	34.00
Robert Steiger. Deep crimson.	3.80	34.00
Grandeur a Merveille. Blush...	3.80	34.00

	100	1000
La Grandesse. Pure white....	\$3.80	\$34.00
L'Innocence. Pure white.....	3.80	34.00
Grand Maitre. Porcelain blue.	3.80	34.00
King of the Blues. Dark blue...	3.80	34.00
Queen of the Blues. Light blue	3.80	34.00
King of the Yellows. Yellow.	3.80	34.00

HYACINTH BULBS—Second Size

	100	1000
In above named 10 varieties...	\$2.50	\$22.00

MINIATURE HYACINTH BULBS

	100	1000
In 6 different colors.....	\$1.40	\$12.00

NARCISSUS BULBS

	100	1000
Emperor. Mother bulbs.....	\$1.40	\$12.00
Emperor. Single nose.....	.80	7.00
Golden Spur. Mother bulbs...	1.40	12.00
Golden Spur. Single nose.....	.80	7.00
Bicolor Victoria. Mother bulbs	1.40	12.00
Bicolor Victoria. Single nose...	.80	7.00
Von Sion. Mother bulbs.....	1.40	12.00
Von Sion. Single nose.....	.80	7.00

NARCISSUS PAPER WHITE GRANDIFLORA, 13 cm. and up, \$10.00 per 1000.
 (250 bulbs of any one variety charged at the 1000 rate.)

Prices are F. O. B. New York, Freight, Duty, Packing and all other expenses paid.
 Varieties not mentioned above, quoted on application. Special prices for large quantities of any one variety.
 3 per cent. may be deducted for cash with order.

HOGEWONING & SONS, Bulb Growers
 32 Broadway, New York

RYNSBURG, HOLLAND

COTTAGE MAID

A Sport of Mrs. C. W. Ward

Get your order in NOW for December and January delivery

\$12 per 100; \$100 per 1000

COTTAGE GARDENS CO., Inc.
 QUEENS, NEW YORK

FERNS IN FLATS

Eight Best Varieties—200 Clumps to a Flat

\$2.00 per flat; 10 or more flats, \$1.90 each

A. M. DAVENPORT, Watertown, Mass.

F. R. PIERSON CO.FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, N. Y.

A. N. Pierson, Inc.

CROMWELL, CONN.

Bedding Plants and Roses

ORCHIDS

We grow and sell nothing but ORCHIDS.
 If you are in the market for this class of
 plants we respectfully solicit your inquiries
 and orders. Special lists on application.

LAGER & HURRELL, Summit, N. J.

ORCHIDSCONSERVATORY PLANTS
BEGONIAS

Lorraine, Cincinnati and Mrs. Peterson

JULIUS ROEHRS CO.
 Rutherford, N. J.

CARNATIONS

Field Grown

ENCHANTRESS SUPREME. EUREKA
 WHITE WONDER. PINK DELIGHT.
 \$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL,
 MATCHLESS,
 \$7.00 per 100; \$65.00 per 1000.

LADY NORTHCLIFF, PINK WINSOR,
 WHITE WINSOR.
 \$6.00 per 100; \$50.00 per 1000.

WOOD BROS., FISHKILL,
 N. Y.

CARNATIONS

F. DORNER & SONS CO.
 LA FAYETTE, IND.

ELMER D. SMITH & CO.
CHRYSANTHEMUMS

Ask for Catalogue

ADRIAN, - - - MICH.

CHARLES H. TOTTY
CHRYSANTHEMUMS
 MADISON, N. J.

GERANIUMS

Alphonse Ricard, Beaut Poitevine, S. A. Nutt, Gen'l Grant, Mad. Buchner, Mal. Reschner, Jean A. St. Jean, Orléans, André Schaefer, Mad. Landry, La Favorite and other good kinds, in 3-in. stock, at \$1.00 per 100; \$2.50 per 1000; 2-in. at \$2.00 per 100, \$18.50 per 1000. We have a large stock for immediate shipment and are booking orders.

BOSTON FERNS, 4-inch, \$15.00 per 100; 7-inch, \$6.00 per doz.; 8 inch, \$1.00 each, \$8.00 per doz. Large plants, in 11 and 12-inch pots, from \$2.50 to \$5.00 each.

	2-in. 100	2-in. 1000	3-in. 100	3-in. 1000
ACALYPHA	\$2.00	\$18.50	\$3.00	\$25.00
ALTERNANTHERA	2.00	18.50	3.00	25.00
AGERATUM	1.00	18.50	3.00	25.00
ASPARAGUS SPRENGERI , Extra strong			5.00	
BEGONIAS , Vernon	2.00	18.50		
COLEUS , 10 varieties	2.00	18.50	3.00	25.00
CUPHEA , Platycentra	2.00	18.50	3.00	25.00
HARDY ENGLISH IVY	2.00	18.50	3.00	25.00

	2-in. 100	2-in. 1000	3-in. 100	3-in. 1000
LEMON VERBENAS	\$2.00	\$18.50	\$3.00	\$25.00
LANTANAS , 10 varieties	2.00	18.50	3.00	25.00
MOONVINES , White and Blue	2.00	18.50	3.00	25.00
PARLOR IVY , S. Scandens	2.00	18.50	3.00	25.00
PETUNIAS , Double and Single Mixed	2.00	18.50	3.00	25.00
POMPON CHRYSANTHEMUMS	2.00	18.50	3.00	25.00
SALVIA , Bonfire and Zurich	2.00	18.50	3.00	25.00
SWAINSONA , White	2.00	18.50	3.00	25.00

CELERY, White Plume, \$1.00 per 1000; 10,000 and over, 85c. per 1000. Golden Self Blanching, \$2.50 per 1000.

CASH WITH ORDER.

R. VINCENT, Jr., & SONS CO.,

**WHITE MARSH,
MD.**

LILY OF THE VALLEY PIPS

Danish and German Stock

Booking Orders now for
1916 Crop

LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

CHAS. SCHWAKE & CO., Inc.

Valley

GERMAN, SWEDISH
AND DUTCH PIPS

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co., 431	Clucas, R. W., 404	Grey, Thos. J., 415	King Construc- tion Co., 430	Palmer, W. J. & Sons, 417	Skidelsky, S. S. & Co., 415
Albany Cut Flower Ex., 422	Coan, J. J., 423	Gude Bros. Co., 416	Knoble Bros., 417	Park Floral Co., 416	Smith, Elmer D. & Co., 402
Allen, J. K., 423	Cottage Gardens Co., 402	Gunther Bros., 423	Kramer, F. H., 417	Parshelsky Bros., 431	Smith, P. J., 422
American Bulb Co., 415	Cooke, Geo. H., 416	Guttman & Ray- nor, 422	Kroeschell Bros., 431	Penn the Florist, 417	Smith & Fetters, 417
Anderson, S. A., 417	Cover, W. J., 420	Hall Association, 431	Kuebler, W. H., 422	Pennock-Meehan Co., 421	Smith, W. & T. Nursery Co., 404
Anglin & Walsh, 407	Craig, Robt. Co., 404	Hammond Paint & Slug Shot Works, 421	Lager & Hurrell, 402	Pierce Co., F. O., 431	Smyth, Wm. J., 417
Aphine Mfg. Co., 420	Crawback, Geo. W. Co., 423	Hart, Geo. B., 422	Lange, H. F. A., 417	Pierson, A. N., 402	Stumpp, G. E. M., 416
Badgley & Bishop, Inc., 422	Dards, 416	Henderson, A. & Co., 415	Leonard Seed Co., 415	Pierson, F. R., 402	Thorburn, J. M. & Co., 415
Barrows & Son, 407	Davenport, A. M., 402	Hentz & Nash, 422	Loechner & Co., 403	Poellmann Bros. Co., 420	Totty, Chas. H., 402
Bayersdorfer, H. & Co., 419	Dreer, H. A., 411-430-431	Hess & Swoboda, 417	McHutchison & Co., 407	Randall's Flower Shop, 416	Tracy & Schenck United Cut Flower Co., 423
Bay State Nur- series, 404	Dorner, F. & Sons Co., 402	Hews, A. H. & Co., 430	McManus, Jas., 422	Reed & Keller, 420	Valentine, J. A., 416
Beechwood Hghts. Nurseries, 423	Dunlop, John H., 417	Hill, E. G. Co., 420	McConnell, Alex., 416	Riedel & Meyer, 422	Vincent, R. Jr. & Sons Co., 403
Bobbink & At- kins, 404	Dysart R., 411	Hill, D. Nursery Co., 404	MacNiff Horticul- tural Co., 401	Reid, Edw., 420	Wants, For Sale, 427
Boddington, A. T., 413	Eastern Chemical Co., 429	Hitchings & Co., 432	Marshall, W. E. & Co., 415	Reiters, 417	Ward, R. M. & Co., 407
Bolziano & Son, 415	Edwards Foldana Box Co., 429	Hogewoning & Sons, 402	Metropolitan Ma- terial Co., 430-431	Robinson, H. M. & Co., 423	Waterer, John. Sons & Crisp, 404
Breck, J. & Sons, 415	Elliott Auction Co., 407	Holland Nurser- ies, 404	Michell, H. F. Co., 414	Rochrs, J. Co., 402	Weber, F. C., 417
Bretmeyer's, J. Sons, 416	Ernest, W. H., 430	Holm & Olson, 416	Michigan Cut Flower Ex., 420	Roland, Thomas, 417	Weiss, Herman, 423
Budlong, J. A., 420	Esler, J. G., 431	Irwin, R. J., 415	Millang, Chas., 422	Rockert, A. & Sons, 404	Welch's, 420
Bunyard, A. T., 416	Evans, J. A. Co., 430	Johnson & Mil- lang, 407	Miller, A. L., 407	Rosery, The, 416	Welch Bros. Co., 420
Burnett Bros., 415	Eyes, 417	Kastling, W. F. Co., 420	Moninger, J. C. Co., 431	Schling, Max, 416	Welch, Patrick, 423
Purpee, W. A. & Co., 415	Farquhar, R. & J. & Co., 415	Keller, J. B. Sons, 416	Murray, Samuel, 416	Schwake, Chas. Co., 403	Wood Bros., 402
Carnation Support Co., 404	Foley Mfg. Co., 431	Kelway & Son, 415	National Nur- serymen, 404	Sharp, Parth, 420 & Co., 431	Woodrow & Mar- ketos, 420
Carter's Tested Seeds, Inc., 414	Ford, W. P., 422	Kerr, the Florist, 417	Nicotine Mfg. Co., 429	Sheridan, W. F., 422	Young, John A. Co., 422
Childs, John Lewis, 404	Ford, M. C., 422	Kerran Co., 422	Niessen, Leo Co., 420	Schmidt, W. R., 422	Young, Thomas, 423
Clarke's D. Sons, 416	Froment, H. E., 422		Nut Grower, 427	Siebers, W. R., 422	Young & Nugent, 416
	Galvin, Thos. F., 417		Ouwkerk, P., 404	Siggers & Sig- gors, 431	Zvolanek, Ant. C., 415
	Gasser Co., J. M., 417		Pallspades Nur- series, 404		
	Graham, Adam & Son, 417				

**FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 424, 425, 426, 427**

MAMMOTH AUCTION SALES

on TUESDAY, SEPT. 26 } 10 o'clock a. m.
and FRIDAY, SEPT. 29 }

Mammoth Shipments of Dutch and French-Grown Bulbs

ALSO LOCAL CONSIGNMENTS OF

Palms, Ferns, Dracaenas, Rubbers, etc., to be offered in lots to suit the large and small buyer

Send for weekly auction catalogue.

The MacNiff Horticultural Co.

52 to 56 Vesey Street, NEW YORK

THE LARGEST HORTICULTURAL SALESROOMS IN THE WORLD

Hardy Roses

NEW YORK STATE two-year field-grown, Low-Budded and Own-Rooted Stock, in prime grading of leading "Florists' Varieties" of HYBRID TEAS, PERPETUALS, POLYANTHAS and CLIMBERS. November delivery ex. dock New York, packing free, per 100 \$12.50; per 1000 \$120. Write for list of varieties available. Stock is grown by A1 firm under contract for

AUGUST ROLKER & SONS, 51 BARCLAY STREET, New York
or P. O. BOX 752

TREES

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties. Sturdy, choice stock that can be depended upon. Send for catalogue and special trade prices.

The Bay State Nurseries

North Abington
Mass.

SHRUBS

This New England firm and climate produces fine sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate.

John Waterer, Sons & Crisp

(LIMITED)

AMERICAN NURSERIES

Bagshot, England

MR. F. GOMER WATERER is now in New York, offering fine stocks of HARDY RHODODENDRONS, Etc.

Correspondence invited. Address at
Hotel Manhattan, New York

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St. Waukegan Heights
P. O. No. 1, Hoboken N. J.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY. Small, medium and large sizes supplied. Price list now ready.

THE D. HILL NURSERY CO.
Evergreen Specialists. Largest Growers in America.
BOX 418, DUNDEE, ILL.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
HATBORO, PA.

BOBBINK & ATKINS

Nurserymen, Florists
and Planters

RUTHERFORD, NEW JERSEY

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

REMEMBER!

If it's a Hardy Perennial or so called Old Fashion Flower worth growing, we have it in one shape and another the year round. We have the largest stock in this country, all made in America, and our prices

will average 75c. per doz., \$5.50 per 100.

Why say more here? Send for our Wholesale Price List of varieties and benefit from the opportunities this affords you. Address

PALISADES NURSERIES, Inc.

R. W. CLUCAS, Manager.

SPARKILL - - - N. Y.

JAPAN IRIS SEEDLINGS

From Home Grown and Imported
Seed insuring a splendid
range of colors

50c. per doz.; \$3.00 per 100;
\$25.00 per 1000

Send for New Catalogue

JOHN LEWIS CHILDS, INC.,
FLOWERFIELD L. I., N. Y.

In Stock ROSE STAKES

EXTRA STIFF No. 9 GALV. WIRE
4½ feet—\$13.05 per 1000

CARNATION SUPPORTS

\$18.00 per 1000 plants.

THE CARNATION SUPPORT CO., Connorsville, Ind.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants
MARKET and 49th STREETS, PHILADELPHIA, PA.

When writing to advertisers kindly
mention HORTICULTURE.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—*Dece.*

Canterbury Bells

Those who planted out a batch last spring in the open border should now lift a good number and pot them using any good rose or carnation soil. Azalea or half-pots are the best to use. These plants possess so many advantages that all florists should grow some. Their culture is simple, requiring only very little handling and care. When lifting and potting field-grown stocks they should be given a semi-shady spot outside for a week or so and after that expose them to the full sunshine. When severe frosts threaten they can be placed in a deep frame here to remain until wanted for indoor blooming. I prefer constant pot culture for the plants because you will get better and more stocky specimens when they are well established before winter sets in and such stock is always sure to give the best results when grown under glass. Plants that have been grown in the field will give the biggest plants though they are not necessarily the most floriferous.

Dutch Bulbs

Don't leave bulbs lying around for days, but box or pot them up as soon as they arrive. When this has been done give them as much water as the soil will take. This will plump the bulbs up, and put them in the right condition to start and make roots. Store them away in some cold frame or—what is better—a bulb cellar, and keep dark and moist until they have advanced far enough with root growth. To be successful in forcing these bulbs, a good compost is necessary. Any good loam three parts, to one part of dry cow manure, and enough sharp sand to make the compost open will grow good flowers. Where the above mentioned compost is not handy, of course old carnation or rose soil that has some fresh loam and old manure added to it will answer in a general way. Now is the time to plan ahead how many of the different kinds of bulbs we shall need.

Summer Flowering Bulbs

Many bulbs are lost every year for the want of proper care at the right time. If there is not room in the houses they can be placed in a frame covered with sash and can stay until heavy frost makes it dangerous for them to remain out any longer, when they can be removed to a dry shed, leaving the pots on their side. Place the bulbs in some dry corner of a cool house where they will not be liable to get too much water. Later on shake them out and store in boxes where the temperature does not fall below 50 degrees. Achimenes, gloxinias, gesneras, tuberous-rooted begonias, etc., as they pass out of flower should have water gradually withheld until they have had time to thoroughly ripen

up. Ornamental caladiums will, like most tropical bulbs, like alternate periods of absolute rest. When these are ripened up they can be packed away in sand and kept in a temperature of about 55 degrees.

Lifting Shrubs for Forcing

Shrubs potted now will have several weeks in which to form fresh root fibres before the winter comes. Use pots or tubs that will first hold them conveniently. Give them a good, strong compost, say three of fibrous loam and one of manure and give each pot plenty of drainage. Work the compost well in and around the roots. These should be lifted now as greater success will follow potting now than a month later. When the weather becomes cold in November they can be placed where their pots will not break, but keep as cool as possible. Set them where they can have shade for four or five days, but after that they should be given a place where they can have full sunshine. Extra care will have to be exercised in watering as some will dry out more quickly than others.

Lily Bed

Replanting should be done at intervals of five or six years. If left longer the bulbs get smaller and smaller, ultimately dying from starvation. This work should be commenced as soon as their tops dry down. Throw out the soil to the depth of about 8 or 9 inches, replacing it with some well-rotted manure or leaves to the depth of 4 inches, after which dig it in with the soil. Then replace the bulbs, setting them from 12 to 15 inches apart. Every florist if he has the ground should have a lily bed. A succession of flowers can be had from June until September. Lilies prefer a light soil as a rule, enriched with some very old manure. The principal requisite is that the soil is well drained. They also like some shelter from the severe winter as well as the midday sun. When planting set the bulbs at least 6 or 7 inches deep and from 12 to 15 inches apart.

Reminders

Ventilate carnation houses freely on all good days.

All pot bound palms should be fed from now and up to the end of November.

Azaleas that are intended for Christmas should be in a house that runs at 55 degrees at night.

Do not syringe chrysanthemums so often now. Give them a chance to harden up. Give plenty of ventilation also.

In order to work up a good stock of crotons, dracaenas and other foliage plants keep the warm propagating benches filled up and busy.

Next week—Cyclamens; Carnations; Lorraine Begonias; Orchids; Peonies; Reminders.

HORTICULTURE

VOL. XXIV

SEPTEMBER 23, 1916

NO. 13

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 147 Summer Street, Boston, Mass.

Telephone, Oxford 292.
 WM. J. STEWART, Editor and Manager.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

	Page
COVER ILLUSTRATION—Lilium Sargentiae.	
NOTES ON CULTURE OF FLORISTS' STOCK—	
Canterbury Bells—Dutch Bulbs—Summer Flowering	
Bulbs—Lifting Shrubs for Forcing—Lily Bed—Re-	
minders— <i>John J. M. Farrell</i>	405
ROSE GROWING UNDER GLASS—Liquid Manure—	
Flowers for Retail Work—Careful Packing— <i>Arthur</i>	
<i>C. Ruzicka</i>	407
LILIUM SARGENTIAE— <i>Arthur E. Thatcher</i>	407
CLUBS AND SOCIETIES—New York State Federa-	
tion of Horticultural Societies—St. Louis Florist	
Club—Meetings Next Week—Gardeners' and Flor-	
ists' Club of Boston—Massachusetts Horticultural	
Society—Nassau County Horticultural Society—	
Sewickley Horticultural Society—Rhode Island	
Horticultural Society—Vegetable Growers' Associa-	
tion of America, Illustrated—New Haven County	
Horticultural Society—Dahlia Show at Attleboro,	
Mass.—Coming Exhibitions—Cleveland Industrial	
Exposition—Club and Society Notes.....	408-410
DURING RECESS—The Farquhar Outing, Illustrated	
—Newport Horticultural Society—Rhinebeck Growers	
412	
SEED TRADE—Clover for Seed—One Week's Imports	
—Largest Bulb Shipment—French Bulbs, Etc.—Notes	
414	
RE BELGIAN SHIPMENTS.....	414
OF INTEREST TO RETAIL FLORISTS:	
New Flower Stores.....	416
Flowers by Telegraph.....	417
NEWS ITEMS FROM EVERYWHERE:	
Chicago, Washington, Cincinnati, Philadelphia, New	
York, Boston.....	418
OBITUARY—James Broadfoot—John Patterson—Wil-	
liam J. Snow—Mrs. John H. Johnson—William	
Langstaff—Mrs. Charles A. Taylor—Charles E. Chen-	
ery—Arthur J. Leary.....	419
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago, Cincinnati, New York,	
Philadelphia.....	421
St. Louis, Washington.....	423
HARDY CHRYSANTHEMUMS— <i>Richard Vincent, Jr.</i>	428
MISCELLANEOUS:	
Groveling Accuracy— <i>George C. Watson</i>	411
The Old, Old Subscriber, poetry.....	411
Fifteen Years Ago Today— <i>George C. Watson</i>	412
Advancing Prices—Why Not?— <i>P. M. Read</i>	413
Forcing Spring Flowering Shrubs.....	413
Catalogues Received.....	413
Westerly Florist Missing.....	416
New Corporations.....	416
The Late Jackson Dawson— <i>F. Gomer Waterer</i>	419
Visitors' Register—Personal.....	423
News Notes.....	423
A Home Garden—Illustration.....	428
Greenkeeping Notes.....	429
Flowers, Animals and Men.....	430
Business Troubles—Patents Granted.....	430
Greenhouses Building or Contemplated.....	430

has been done. This shows the most essential thing to develop a market is to get people interested in growing things" and argues that the opportunity to purchase garden material at an unexpectedly low price tends to make new permanent customers who might not otherwise have ever been interested and that these by their example will stimulate and encourage emulation on the part of others also. This strikes us as pretty logical reasoning and we have seen it demonstrated repeatedly. Take a given neighborhood where the homes are all unadorned and let the owner of just one of these proceed to beautify it with trees, lawn, flowers and vines and note the result. It will not be very long before the whole neighborhood is transformed. The most effectual missionary work isn't all preaching.

The English sparrow

In common with many others, we are not in full accord with the sentiments expressed by Mr. Forbush in regard to the standing of the so-called "English" sparrow, in his lecture before the Gardeners' and Florists' Club of Boston, last Tuesday evening. We recognize the fact that as a life-long devoted student of bird habits, and as State Ornithologist of Massachusetts, Mr. Forbush possesses an exceptional knowledge of his subject and his opinion should carry great weight. But we have repeatedly seen such evidence of this bird's useful services in insect destruction that we are always moved to register our protest whenever we hear him denounced, as it seems to us, too harshly. We think, too, that it is a mistake to hold the English sparrow so largely responsible for the reduction in numbers of our native birds as do Mr. Forbush and others. The full effect of the encroachments of civilization on Nature's domain is a subject too complex to be disposed of offhand and even at his worst the sparrow can be but an insignificant factor. The woods, fields and meadows are the natural habitat of the native birds and there the English sparrow does not care to go, preferring to keep close to the habitations of man. Not all his traits are lovable but he has enough good points to entitle him to a "square deal."

A good move

In addition to continuing the successful series of Landscape Gardening classes which have been conducted for a number of years under its auspices, the Gardeners' and Florists' Club of Boston now proposes to inaugurate also a course in Floral Art provided a sufficient number of members signify a desire to take advantage of the offer. The only untoward feature of the landscape enterprise has been the occasional difficulty of securing enough students to make it self supporting. In a club numbering over four hundred members a goodly proportion of whom are young gardeners presumably desirous of advancing in the knowledge of their art and in the emoluments which appertain to it, this lack of interest is regrettable. To what extent support will be given to the new proposition remains to be seen. "Floral Art" is a topic of very broad application, closely touching upon the major part of a gardeners' as well as a professional florists' function and we do not yet know just what line of instruction is contemplated. But it is safe to say that in no particular is the average florist or gardener more deficient than in a knowledge of the fundamental principles underlying correct harmony and contrast in form and color arrangement. Whether it be in garden planting, exhibition grouping or decorative cut flower work, equal crudeness is generally seen. The workers evidently have much to learn and the field is limitless. We hope to see a ready response in this new and very commendable club enterprise.

"Good out of evil"

The frequent discussions of late in regard to cut price sales, department store competition, "dumping", auction sales, etc., call to mind a recent article in the National Nurseryman touching on the agitation and railing in the nursery trade against these methods of disposing of surplus stock. The writer of the notes here referred to very pertinently says "Perhaps these evil things will eventually work good" and adds "Every nurseryman knows that localities that have planted most are easier to sell to than those where little or no planting

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Liquid Manure

It is not too early in the season to start liquid manure, especially in the earlier planted houses where the plants have made quite some root. It will be best to use it weak at first and then only following a watering with clean water. This will insure against harm, for at this time of the year the plants dry out rapidly as a rule, and if the liquid hit at dry plants it would be sure to damage the roots a good deal thus giving a check from which it would take them a long time to recover. Where no dairy is maintained on the place the liquid can be made by mixing good cow manure with water and after running the liquid through screens, pumping it into the water pipes and using it same as clear water, only that we do not apply so much of it for it is expensive and if the plants are watered as suggested above it will not take so much to saturate the soil from top to bottom without wasting hardly any through the benches. To avoid stopping up the pumps with sediment it is best to mix a tank full at least two days before it is needed, and then allowing it to stand unstirred until used. This will settle all the coarse stuff to the bottom while all available parts of the manure will remain dissolved in the water. Where a dairy is maintained the liquid from all stables should be saved and diluted with water to the proper strength and used same as other liquid manure. Chemicals should not be added unless expert men handle them, as often more harm will result than good. A bag of bone dropped into the tank every now and then will make the mixture much better for the rose. Lime can also be added when the plants need it and when applied with the liquid manure will help harden them, and will kill many earth worms in the soil, too many of which are not wanted. Lime should never be mixed with manure in heaps or applied with manure when mulching, as it frees much ammonia and other chemicals long before the plants can take them up and the result is that there is a great waste.

Flowers for Retail Work

Jack Frost will soon do away with all flowers outside, and it will therefore be necessary for growers who do any amount of retail work to move some of the plants in before they are touched by frost. Much of these can be put into boxes at the ends of the houses. They will not produce flowers of the best quality as the houses will be run to suit the roses, but for making up designs now and then and to add to a box of mixed flowers these little odds and ends will come in handy. Snapdragons, stocks, swainsons, heliotropes, crocuses—all these can be used during the winter, and the plants made into cuttings in the spring with the exception of the first two which do better from seeds. A few cold storage Giganteums will come in handy too as will a little other bulb stock. As stated before the flowers thus grown will not be of the best quality, but with a little care they can be grown to be good enough to use for the purpose mentioned and will be a great help to any one called on to

make up work of any kind. Cultural directions will be found elsewhere in HORTICULTURE for any of the stock mentioned above.

Careful Packing

There is very little use in being very careful in growing roses and then handling them like stones when packing them for shipment. There is many a lot that would have sold for double the price they did if they had been packed carefully so that they would not arrive in the market all bruised and torn, with the leaves badly torn by the thorns and in many cases the buds themselves punctured by thorns of roses packed over them. To begin with, all roses should be in water at least four hours before shipment, and in an ice box if possible, to harden them. When properly hardened they will carry much better and stand handling. Have the boxes properly lined with paper, and use a cushion of tissue up against the end of the box, being careful to pack the first rows a safe distance from the end. Pack well; being careful that the heads of the buds do not crush up against the row ahead of them. Although the roses should not be crushed by packing too many in a box they should not be packed loosely either, as they bruise if they are packed loose almost as much if not more than when they are overcrowded. If necessary to pack two layers to a box, make it a point never to pack anything over white, as these show the marks much more than any other. Also see that there is sufficient paper in between the layers to protect the lower roses from the thorns of the upper ones.

Lilium Sargentiae

After five years' thorough trial in this part of the country, where the winters are annually of sufficient severity to test any plant to the utmost, it is pleasant to accord this grand lily the highest commendation. In addition to being one of the largest flowered lilies it is also one of the strongest growers, and when planted and left undisturbed in a congenial soil, a well drained loam suiting it admirably, one will soon be able to look upon stately stems six to seven feet high, carrying from fifteen to twenty flowers. It can be reproduced by bulblets taken from the axils of the leaves, and the accompanying illustration shows what may be expected of these after two years' growth. From one to four flowers will be produced on each stem.

The color is beautiful, the pure white of the interior, the brown anthers and the ruddy shading on the back of the petals combine to make one of the handsomest of all the lilies. Considering the beauty of this lily, its vigor and hardiness and all its other good qualities, one cannot too highly recommend it to garden lovers.

Arthur E. Thatcher

Bar Harbor, Me.

CLUBS AND SOCIETIES

NEW YORK STATE FEDERATION OF HORTICULTURAL SOCIETIES

A meeting of the State Federation of Horticultural Societies was held at the State Fair in Syracuse on September 14, 1916. Vice-President E. A. Bates of Syracuse presided. There was a good attendance at the meeting, and various reports were given on the work of the different committees during the past year. A committee consisting of Messrs. McCarthy, Thorpe and White was appointed to draw up suitable resolutions on the death of President Wm. F. Kasting.

It was the opinion of the Federation that its work would be more effective if there were more meetings during the year. It was, therefore, voted to hold an annual meeting at New York State Fair Grounds in Syracuse during State Fair Week, a second meeting at Cornell during Farmers' Week, a meeting in New York City during the Spring Flower Show, and a fourth meeting with some society of the Federation at such time as the President might designate. It was voted to provide for an executive board to consist of the President, Secretary and Treasurer of the State Federation of Horticultural Societies and the president of each affiliated society in the Federation.

The officers elected for the ensuing year were as follows:

President, F. R. Pierson, Tarrytown; First Vice-President, Dr. E. A. Bates, Syracuse; Second Vice-President, George McCarthy, Syracuse; Third Vice-President, C. H. Vick, Rochester; Fourth Vice-President, George E. Thorpe, Syracuse; Fifth Vice-President, F. A. Tinker, Albany; Secretary, E. A. White, Ithaca; Treasurer, W. A. Adams, Buffalo.

It was voted to appoint a committee of the Federation to confer with the Horticultural Council in regard to an appropriation for a Horticultural Building at the New York State Fair. The members elected to this committee were President Pierson and Messrs. Bates, Lumsden, Workman and Thorpe.

E. A. WHITE, Sec'y.

ST. LOUIS FLORIST CLUB.

The September meeting of the Florist Club was held at the Sanders Nursery Co. in St. Louis County on Thursday, September 14. The members met in the wholesale district and the trip was made in decorated automobiles. After a walk through the greenhouses and nursery grounds the meeting was held on the lawn. The show committee reported that the Spring Flower Show would be held in Armory Hall, March, 1917, and that the show was incorporated as the St. Louis Flower Show Association. F. J. Fillmore and C. C. Sanders were appointed to install the new officers, as follows: Jules Bourdet, president; Aug. H. Hummert, vice-president; J. J. Windler, secretary; W. C. Smith, treasurer; F. A. Windler, trustee. The retiring officers—J. J. Beneke, for the past ten years secretary, and W. S. Wells, vice-president—were given a rising vote of thanks for their good work while in office. The meeting

Meetings Next Week

Monday, Sept. 25.

Florists' and Gardeners' Club of Rhode Island, Swartz Hall, Providence, R. I.
Gardeners' and Florists' Club of Baltimore, Florist Exchange Hall, Baltimore, Md.

Tuesday, Sept. 26.

Newport Horticultural Society, Newport, R. I.
Tarrytown Horticultural Society, Tarrytown, N. Y.
American Dahlia Society, New York.

Wednesday, Sept. 27.

Oyster Bay Horticultural Society, Oyster Bay, N. Y.

then adjourned and refreshments were served on the lawn by Misses Laura and Jessie Sanders. The next meeting will be held on October 12 at the St. Louis Wholesale Cut Flower Co.'s new home.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The September meeting of this club, held on Tuesday evening, September 19, was a most enjoyable affair and an auspicious opening of the season of 1916-17. Fully two hundred and fifty, of whom at least one-half were ladies, were present to enjoy the stereopticon lecture on "Birds and Their Value to Gardeners and Florists." Another attraction was the promise of a collation and then dancing to follow the lecture.

Mr. Forbush showed a large number of prettily colored pictures of wild birds in various positions and activities, many of them obtained only after the exercise of much ingenuity and patience. The lecture was convincing as to the necessity of protection for the native birds in order to cope with the insect invasions. Mr. Forbush's antipathy to the English sparrow drew out several members in defence of this much berated emigrant.

The younger members tarried and indulged in dancing until close to the midnight hour.

At the October meeting of the club "Chrysanthemums" will be the subject. In November there will be a stereopticon lecture on "Tree Surgery," and in December one on "Greenhouse Construction."

MASSACHUSETTS HORTICULTURAL SOCIETY.

The Fruit and Vegetable Exhibition of the Massachusetts Horticultural Society will be held in Horticultural Hall, Boston, on Saturday and Sunday, October 7 and 8. The hall will be open for exhibits of new, rare or improved varieties of plants, flowers, fruits and vegetables, for which suitable recognition will be made on Saturday afternoon, September 23, and Saturday afternoon, October 21.

The Grand Autumn Exhibition will open on Wednesday, November 1, and close on Sunday night, November 5. This latter is a "pay show." The others are free to the public.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The monthly meeting of this society on September 13 was the best attended of the season. A letter was received from Henry Gibson tendering his resignation as secretary, he being about to locate elsewhere, and Ernest Westlake was appointed secretary pro tem. During his term of office Mr. Gibson proved to be a most capable official and we deeply regret losing his services. He carries the best wishes of all his fellow members to his new location. The schedule of the Chrysanthemum Show, 53 classes, was read and approved. In all but a very few classes competition is open to all. James Gladstone was appointed manager for the Dahlia Show to be held on October 5 with Thomas Twigg as assistant. An essay on "Mushrooms and Their Culture" was read by Joseph Robinson, describing the various types of edible fungi and the distinguishing characteristics of the poisonous varieties. Two essays received from the National Convention of Gardeners were very favorably received.

Awards were made to the following exhibits: Jos. Robinson 1st for muskmelon; F. Petroccia 1st for corn, and lima beans, also vote of thanks for new Honeysweet corn.

JAMES MCCARTHY, Cor. Sec.

SEWICKLEY HORTICULTURAL SOCIETY.

The regular monthly meeting of the Sewickley (Pa.) Horticultural Society was held on Tuesday, Sept. 12, in the Odd Fellows Hall. The coming show, on Sept. 22 and 23, was up for discussion and a final committee of arrangements appointed. Wm. Thomson, Sr., showed some orchids and Thos. Sturgis showed a collection of gladioli, also some very fine seedling dahlias of the Indian family type. A vote of thanks was accorded the exhibitors. Reports of the Field Day, held on Aug. 30, showed the picnic to have been a success in every way. The Society extended a vote of thanks to Mrs. Wm. Thaw for her kindness in granting the freedom of her estate for the day. Applications were received for five new members.

M. CURRAN.

RHODE ISLAND HORTICULTURAL SOCIETY.

The September show of the Rhode Island Horticultural Society was held in the Narragansett Hotel, Providence, on September 12 and 13. There was a grand display of dahlias, gladioli, asters and roses, as well as fruit and vegetables and the public attendance was very large. W. D. Hathaway and Miss Nellie Jilson were large winners in the professional dahlia classes. J. P. Rooney received a gold medal for his dahlia Mrs. Frederick Grinnell, and Geo. L. Stillman got a like award for his Millionaire. Roger Williams Park put up a showy table of flowers. The next exhibition will be in November.

THE RUSSIAN DRIVE

have different objectives. We sell at auction **HOLLAND'S FINEST BULBS** and the best Local Grown Decorative Plants, Evergreens, Etc. Sales at auction every Tuesday and Friday at 9. A. M. 10,000 square feet devoted to our auction business. **WRITE FOR CATALOGUE**

AND THE DRIVE OF JOHNSON & MILLANG, Inc.

Coogan Building, 55 57 West 26th Street, New York Under Cut Flower Exchange

Vegetable Growers' Association of America



BALL ROOM, LA SALLE HOTEL, CHICAGO, ILL.

Program of the Ninth Annual Convention of the Vegetable Growers' Association of America, LaSalle hotel, Chicago, Ill.:

Tuesday, September 26.

10 A. M.—Open session, welcome address and response, report of officers, reports of state vice-presidents, announcements.

2 P. M.—“Greenhouse session, R. L.

Watts, chairman; topics for roundtable discussion: “New Vegetable Greenhouse Crops,” “Controlling Diseases and Insects.”

Night.—Open.

Wednesday, September 27.

9 A. M.—Inspection trip to North Side greenhouses and gardens.

1 P. M.—Lunch at Inn. Addresses of interest to Chicago growers. Chicago



R. L. WATTS.

President, Vegetable Growers' Association of America.



M. L. REUTENIC.

Vice President, Vegetable Growers' Association of America.

LILY BULBS

Fall Shipment from Japan

Prices quoted F.O.B. New York, Chicago, Denver, San Francisco and London (Ont.)

Write for quotations stating quantity, variety and size required.

McHUTCHISON & CO. The Importers
95 Chambers St., New York

OLDEST AUCTION HOUSE

IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co.
42 Vesey St., New York

Large Xmas Peppers

Also BIRD'S EYE PEPPERS

Exceptionally Fine 4 Inch Stock at \$8.00 per Hundred.

ALSO

ASPARAGUS PLUMOSA

4 in. pots at \$8.00 per Hundred

Extra Fine Stock for Planting Out

A. L. MILLER

JAMAICA, N. Y.

LILY BULBS

RALPH M. WARD & CO.
71 MURRAY ST., NEW YORK

FREESIA PURITY BULBS

Florists' Forcing Size, 1/2 to 5/8 inch

\$7.50 per 1000 High Grade Bulbs

ANGLIN & WALSH CO.

Williamsbridge, N. Y.

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.

WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.

ROOSEVELTS—\$5 per 100, \$40 per 1000.

BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

commission men on "Preparing Vegetables for Market."

8 P. M.—"Better Seeds" session; C. E. Durst, chairman; report of committee on nomenclature and varieties of vegetables. Report of committee on seed inspection and certification. Discussion of the seedman's disclaimer.

Thursday, September 28.

7 A. M.—Visit to Water street and Randolph street farmers' market.

9 A. M.—"Marketing" session; H. W. Shelby, chairman. "Auction System of Selling Perishable Products." Victor K. McElheny, Jr., New York. "Advertising for the Vegetable Growers." L. W. C. Tuthill, New York. Address on "Standardization" by representatives of the Bureau of Markets, U. S. D. A. Talk on crop reports by representatives of Bureau of Crop Estimates, U. S. D. A. Report of committee on Weights and Measures. Report of Committee on Co-operative Buying and Selling.

2 P. M.—Marketing session. (Continued.)

8 P. M.—Illustrated lecture. "Science and the Soil." Henry G. Bell, Chicago.

Friday, September 29.

10 A. M.—Reports of committee. Unfinished business. Election of officers. Afternoon.—Open.

6 P. M.—Banquet.

NEW HAVEN COUNTY HORTICULTURAL SOCIETY.

The New Haven County Horticultural Society is doing more insistent work than ever before. The annual exhibition, which was held the past week, was full proof that this Society is still full of life and activity.

John H. Slocombe, who has been in touch with the Society for forty years, had a wonderful display. In the class "Open to All, for 24 dahlias, any and all types," he won first. All these varieties were of his own raising and they won in open competition, over imported varieties, as well as those of domestic origin. It is questionable if any other dahlia grower in America could place 24 dahlias of his own raising and win first prize in open competition, especially with such growers as are to be found in New Haven and vicinity.

The following is a list of the 24 varieties exhibited by Mr. Slocombe: Mildred Slocombe, Beatrice Slocombe, Emma Slocombe, Chieftain, Red Chieftain, Geisha Seedlings 1, 2, 3 and 4, Mrs. Nathaniel Slocombe, Herbert Slocombe, Elsie Bunnell, White Excelsior, Purity and ten unnamed seedlings of 1915.

W. F. Jost, of East Haven, won nine 1st and four 2nd cash prizes. A. E. Doty, Morris Cove, won four 1st and eight 2nd, also a certificate of merit for a new dahlia not introduced prior to 1914. William Austin, gardener for L. E. Stoddard, won the Sanderson prize for 25 dahlia blooms. Great interest was taken in the school children's class, in which many prizes were given. William Austin received 1st and David Kydd 2nd in the State prize for one-half bushel of potatoes.

The judges for the show were Maurice Fuld, E. L. Childs and George L. Thrall, Sr.

Coming Exhibitions

Sept. 26-28, New York, N. Y.—Amer. Dahlia Soc.'s annual show, in Engineering Bldg., 25 W. 39th St. In conjunction with The American Institute of the City of New York.

Sept. 26-29, Chicago.—Vegetable Growers' Association, Hotel La Salle. Annual Convention and Trade Exhibit.

Oct. 7-8, Boston.—October Fruit and Vegetable Exhibition, Massachusetts Horticultural Society, Horticultural Hall.

Oct. 10-12, New Orleans, La.—Eighteenth Annual Convention American Association of Park Superintendents.

Oct. 26-27, Madison, N. J.—Twentieth Annual Flower Show, Morris County Gardeners' and Florists' Society, James Assembly Hall.

Oct. 27-29, Mount Kisco, N. Y.—Fall show of the Northern Westchester County Hort. and Agri. Soc.

Oct. 31-Nov. 1, Greenwich, Conn.—Fall Flower, Fruit and Vegetable Show of the Westchester and Fairfield Horticultural Society.

Nov. 1-5, Boston.—Grand Autumn Exhibition of Plants, Flowers, Fruits and Vegetables, Massachusetts Horticultural Society, Horticultural Hall.

Nov. 1 to 3, Tarrytown, N. Y.—Chrysanthemum show of the Tarrytown Hort. Soc. in Music Hall.

Nov. 8-10, New York.—Annual Chrysanthemum show of the American Institute, Engineering Society Bldg., 25-33 W. 39th St., New York.

Nov. 9-11, Lancaster, Pa.—Fall flower show.

Nov. 9-12, New York.—Fall exhibit Horticultural Society of New York at Museum of Natural History.

Nov. 11-19, New Orleans, La.—Flower show.

Nov. 14-15, Providence, R. I.—Flower show of R. I. Hort. Soc.

DAHLIA SHOW AT ATTLEBORO, MASS.

The Attleboro (Mass.) Dahlia Association held their second annual dahlia show on Friday and Saturday, September 15 and 16, at Y. M. C. A. Hall. The schedule was an attractive one and the local growers supported it well with their advertising. J. K. Alexander was judge. George J. Bauer, of Briggs Corner, was the big local winner. Two exhibitions by W. D. Hathaway and J. K. Alexander were not in competition, but attracted lots of attention by their beauty and quality. This has been a bad year for dahlia growers, owing to the inroads made in the gardens by the cinch fly. Whole gardens have been destroyed and it had its effect upon the annual shows in the quality as well as quantity of flowers shown.

The committee in charge of the show included Charles Sleeper, George L. Cobb and Thomas N. Proctor. Next to G. J. Bauer in the list of winners were Thos. N. Proctor, F. L. Tinkham, Geo. L. Cobb, Sidney Addecott, H. N. Fiske, R. S. Hossington, E. N. Hiron and C. E. Sleeper. The winners on seedlings exhibited by the originators were as follows:

Cactus—1st, Joseph Hewings; 2nd, Eben N. Hiron.

Decorative—1st, Sidney Addecott.

Peony flowered—1st, Thomas N. Proctor; 2nd Thomas N. Proctor; 3rd, R. S. Hossington.

Single—1st, 2nd, 3rd, Thomas N. Proctor.

Collarette—Thomas N. Proctor.
Pompon—Thomas N. Proctor.

CLEVELAND INDUSTRIAL EXPOSITION.

The big show at Cleveland turned out very successful. The flower show section was one of the most artistic features of the entire event and attracted favorable comment.

The retailers had a lot of fine tables, a total of ten in all, changing them about every second day. There were three tanks of water lilies and other aquatic plants.

The floral interests of Cleveland made an elaborate exhibit, consisting of a rustic bridge and water falls. The private gardeners more than spread themselves on their various group feature exhibits.

Prize Awards.

Ornamental Grasses—1st. Woodside Farm, O. P. Blackman, Mgr., West Park, O.

Foliage Plants—2nd. Woodside Farm.

Group of Stove and Greenhouse Plants, 150 sq. ft.—1st. James W. Corrigan, Wickliff, O.

Specimen Palm—1st. Woodside Farm.

6 Specimen Crotons—1st. Woodside Farm.

6 Dracaenas—2nd. Woodside Farm.

Pandanus Veitennii—2nd. James W. Corrigan.

Gladioli, 5 classes—1st. James W. Corrigan.

Display of Delphinium arranged for effect—1st. James W. Corrigan.

Lemon Tree—1st. James W. Corrigan.

Straw Flowers—1st. Chas. Reece, 13526 Detroit avenue.

Petunias—1st. Corrigan Estate, 2nd. Chas. Reece.

Centaureas—1st. Corrigan Estate.

Hardy Lilies—1st. Mrs. C. W. Wason.

Hanging Basket—1st. James W. Corrigan.

2nd. H. P. Eells, Wickliff, O.

Begonias, Hanging Baskets—1st. James W. Corrigan.

Hamper—1st. James W. Corrigan, 2nd. H. P. Eells.

Asters, 5 classes—1st. Mrs. J. W. Weth, Bay Village, O.

Hardy Phlox—1st. Woodside Farms.

Boston Fern—1st. H. P. Eells.

Collection Garden Flowers—1st. Woodside Farms, 2nd. James W. Corrigan.

CLUB AND SOCIETY NOTES.

The Massachusetts Asparagus Growers' Association held its annual meeting on Thursday, September, at the Experiment Station, Bedford road, Concord, Mass., at 11 o'clock A. M. Among the speakers were Dr. N. W. Sanborn of Holden, Henry Green of New York, Professor William P. Brooks and Professor J. B. Norton.

The prize schedule of the annual flower shows of the Morris County Gardeners' and Florists' Society has been received. The exhibition will take place on Thursday and Friday, October 26 and 27, in Assembly hall, Madison, N. J. This will be the 21st fall flower show of the society. Copies of the prize list may be had on application to Edward Reagan, secretary, Morristown, N. J.

September 14 was an ideal day for the Worcester County (Mass.) Horticultural Society's flower, fruit and vegetable exhibition, and hundreds visited Horticultural Hall in the afternoon. There was a good showing of gladioli, and though not many dahlias were shown, the specimens were beautiful. Dahlias are not numerous, owing to the late wet season, but there will be some fine dahlia blossoms later.

The flower show committee of the Holyoke and Northampton Florists'

DREER'S ARAUCARIAS



ARAUCARIA (NORFOLK ISLAND PINE) 1916

We have a good supply of Araucarias. You gain the benefit not only of the fall's growth by laying in your supplies now but to many points shipments by freight can now be made with safety at a saving of transportation charges.

Araucaria Excelsa

5 inch pots, 8 to 10 inches high, 2 to 3 tiers.....	Each \$0.75
5 inch pots, 10 to 12 inches high, 3 tiers.....	1.00
6 inch pots, 10 to 12 inches high, 3 to 4 tiers.....	1.50
6 inch pots, 12 to 15 inches high, 3 to 4 tiers.....	1.75
6 inch pots, 16 to 18 inches high, 4 tiers.....	1.90
7 inch pots, 18 to 20 inches high, 4 to 5 tiers.....	1.25

Araucaria Excelsa Glauca

5 inch pots, 8 to 10 inches high, 3 tiers.....	Each \$0.75
6 inch pots, 10 to 12 inches high, 3 to 4 tiers.....	1.00

Araucaria Robusta Compacta

6 inch pots, 12 inches high, 2 to 3 tiers.....	Each \$1.00
6 inch pots, 14 to 16 inches high, 3 tiers.....	1.50
7 inch pots, 18 to 20 inches high, 3 to 4 tiers.....	2.00

The above prices are intended for the trade only

HENRY A. DREER

714-716 Chestnut St., PHILADELPHIA, PA.

and Gardeners' Club announces that the fourth annual flower show under the auspices of the club will take place in Northampton, Mass., City Hall, Nov. 1 and 2. The committee, which met recently in Northampton is as follows: H. E. Downer, Northampton, chairman; G. H. Sinclair, D. J. Gallivan and George Rackliffe of Holyoke, F. D. Keyes of Florence, A. H. Nehrling of Amherst and K. B. Uhlman of Northampton.

The monthly meeting of the Lenox (Mass.) Horticultural Society was held September 13th. A paper for the evening entitled "Diabroticas" was read and well discussed. There was also a discussion on the pine tree disease which this season is very prevalent in the Lenox district. It was voted to hold the annual Field Day on Thursday, September 21. A good program of sports has been arranged. There was a large attendance and two new members were proposed. At the next meeting, October 11, there will be a lecturer from the state college.

An interesting meeting of the Westchester and Fairfield Horticultural Society was held in Greenwich, Conn., Sept. 8. For the fall show several substantial additions to the premium list were received. The judges reported the following awards on the evening's exhibits: Mills & Co., Mamaroneck, N. Y., highly commended for display of dahlias, also special mention for seedling dahlias; Wm. Graham, certificate of merit for display of rose Ophelia and vote of thanks for Centaurea Americana; Anton Pederson, certificate of merit for new tomato "Stanford

Beauty"; Andrew Whitelaw, vote of thanks for tomatoes "Yellow Ponderosa." After the regular business the members enjoyed a social session. The next meeting will be held Oct. 13. A display of dahlias and other seasonable flowers will be in order.
P. W. POPP, Cor. Secy.

THE OLD, OLD SUBSCRIBER.

How dear to my heart are the old things in general,
When fond recollection presents them to view;
Old pewter, old linen, old friends and old china,
Old books and old songs are far better than new.
And old shoes for comfort (we need new ones badly),
The old corn-cob pipe I shall always hold dear—
But the old, old subscriber, I mention him gladly,
Even faithful and true, he renews by the year.
The old, old subscriber, the dear old subscriber,
The faithful old friend who renews every year.

Old wine and old sweethearts, the older the better;
The old folks at home what is home without them?
The old swimming hole—it must not be forgotten—
The jewel of Memory's whole diadem;
Old times and old customs, and e'en the old dances
(We'll have to admit we cannot turkey trot)
But of the old institutions, if one must take chances,
The old, old subscriber's the best of the lot.

The old, old subscriber, the dear old subscriber,
The paid up subscriber's the best of the lot.
—Nat. Stockman & Farmer

GROVELLING ACCURACY

Being too precise about things is a grave mistake.

If you are charged fifteen cents where it ought to be ten and you protest then you are a nuisance and a victim to grovelling accuracy.

My friend 'Gene at Dreer's is a past-master on this point and has consigned me to the lowest academic pit—the pit of grovelling accuracy.

"We have no time in our business for drawing fine hairs," said he. "We are too busy."

Granting all that, about the busy end of it, isn't it permissible to ask where would the advancement of horticulture have started if some long haired individual hadn't started drawing fine hairs and giving us Killarneys and things. Getting out the orders and getting the money are big things. But the

Big Spirit

lack of all that is what makes the business possible!

If it were not for that big spirit there would be no Dreer's. Make no mistake about that and when we say Dreer's we mention them as typical in leadership and we know that 'Gene does not mean what he says about academic and hair-drawing.

We trust he will have a change of heart towards the dear public hereafter and put his remarks in such form as may be useful to the world beyond the confines of Philadelphia.

GEORGE C. WATSON.

During Recess

The Farquhar Outing.

On Saturday afternoon, September 16, the employees of R. & J. Farquhar & Co., Boston and Dedham, Mass., held their first outing, and so successful was it that it is hereafter an assured annual event. There were nearly one hundred in the party and a special car carried them from Boston to the Spring Grove at Wellesley. Following is the "list of events" and the winners:

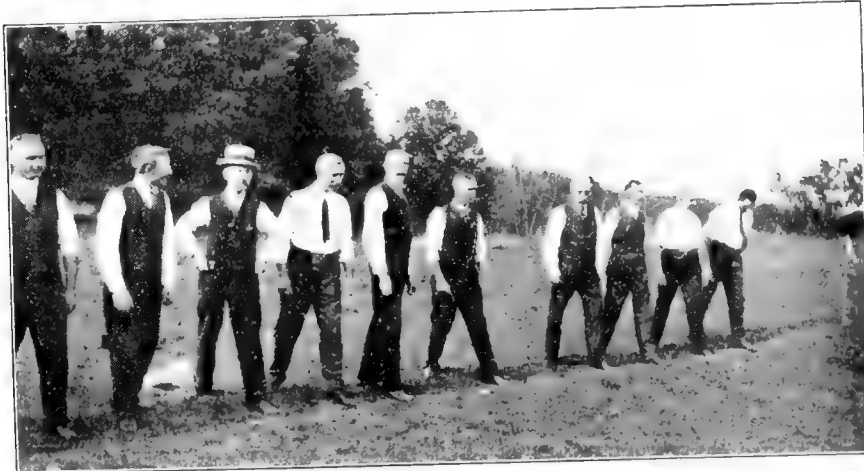
100-Yard Dash for Men—1st. R. Chapman, store; 2nd. E. Johnson, nursery.

50-Yard Dash for Girls—1st, Miss C. Wannberg, store; 2nd, Miss R. McBride, store.

Pipe Race—H. Jones, store.

Three-Legged Race—T. Westwood and M. Raux, store.

Throwing Baseball for Distance for Girls—1st, Miss S. Sutton, store; 2nd, Miss R. Beckett, nursery.



THE FARQUHAR OUTING.

Men Over 40, Ready for the 50-yard Dash.

50-Yard Dash for Men Over 40—John Van Leeuwen, nursery.

Relay Race Between Store and Nursery—Won by Store: T. Westwood, G. Sanford, H. Jones, R. Chapman.

Baseball Game—Store and Nursery, five innings, resulted in a tie, 5 to 5. The features of the game was the battery work of Stead and Chapman for the store, and McGoldrick and Johnson for the nursery. The game was a regular Red Sox-Detroit affair.

The soccer football game between the store and nursery was won by the nursery, in a well-played game, 1 to 0. Valuable prizes were awarded in each event.

The committee in charge was J. W. Davy, chairman; V. E. Nilsson, financial secretary; Miss Agnes Keogh, William Bewsher, Frank Stead, Arthur Holland, Edw. Johnson and Patrick Fordham.

OFFICIALS OF GAMES.

Athletic Events—Frank Stead, clerk of course; Edw. Johnson, timer; Alex. P. Dewar, Frank Murray, Wm. Gordon, judges; John Van Leeuwen, start-

er; J. W. Davy, announcer.

Umpires for Baseball Game—James Armstrong and John Traquair.

Referee for Soccer Football Game—Don M. Smith.

Official Scorer—Jack Patten.

Prize Awarder—John K. M. L. Farquhar.

Music—John Cody, piano; William Horton, drums.

Concert and Dancing—Miss H. Mullen, soloist; R. Chapman, Charley Chaplin act; George Sanford, flute selection; Harold Leary and William Green, exhibition toe dancing.

Luncheon was served in a spacious pavilion.

Newport Horticultural Society.

Hundreds of people packed the capacious beach dance hall, Tuesday evening, September 12, for the eighteenth annual ball of the Newport Horticultural Society, which was, as in other years, one of the social events of the local season. Probably the biggest attraction, other than the ball itself, was the presence of Conrad's complete orchestra, with Mr. Henri Conrad leading, to render the latest music for a program of 20 dances. The couples

Rhinebeck Growers.

The Rhinebeck (N. Y.) Violet Growers held their first outing at Pink's Pond on Saturday, September 9. It was a very successful occasion both socially and piscatorially and will be made an annual event.

FIFTEEN YEARS AGO TODAY.

Tom Roland was spending his good money advertising the Lorraine Begonia. He knew how. Now he's rich.

White Golden Gate, "the great prize winner," was the slogan of the American Rose Co. of Washington, D. C. That one brings many pleasant memories—also some sad. Benj. Durfee was a good old scout in his day and not afraid to advertise.

S. L. Watkins, of Grizzly Flats, California, was advertising the best mole and gopher trap ever devised.

A would-be orator was making a speech here in Philadelphia recently and described one of our ash-collecting politicians "as the greatest statesman ever produced." We suggest to him that word "devised" as an improvement. Oh yes, Mr. Editor, I know what you think and I frankly own up to being a slave to grovelling accuracy."

Fifteen years ago today this is what Edwin Lonsdale said about Dreer's.

"Everything attempted there is done with a definite object in view; no trifling experiments being indulged in. No unoccupied spaces are to be seen nor any wasted energy on the unlikely or unprofitable."

And yet for all that 'Gene has the audacity to say that he is no slave to grovelling accuracy or hair-splitting. The greatest hair splitter on earth when it comes to a question of making money.

Harry A. Bunyard was making the welkin ring with—

"Galax, galix, galox!
We have the goods if
You've got the rocks!"

and Harry, thank the Lord, is still in evidence, adding bright cheer to a gloomy world.

And our good friend Harry Bayersdorfer was also young and frisky in those days. This is the way he was capering at us:

"When your stocks look tired and dusty
And the baskets old and rusty
Let us tell you what to do—

Just write to Bayersdorfer
Ask him what he has to offer
I'd do it if I were you."

The old scout is still on deck and while he may girth a little and stick to plain prose he still leads the procession in his line.

Fifteen years ago today Sam Pen-nock fell a victim to the golf fever and there was much grim head shaking among the ancients around the good old Quaker settlement of Lansdowne.

The market report on glass was that it was "still going up." Of course. It always is. It is now. Fifteen years makes a big difference to some things but never to glass. It's like the poor boys' song on the English treadmill.

Always going up!
And never coming down again!!

So you had better hurry up and buy now. G. C. W.

Emulate the pin. Be sharp and to the point, but with head enough to keep you from going too far.

—Boston Traveler.



Boddington's Re-selected Winter-flowering Spencers as grown by Wm. Sim, Cliffondale, Mass.

WINTER SPENCER SWEET PEAS

	1 oz.	1 oz.	1 lb.
APRICOT ORCHID. Mostly apricot seed	\$1.50	\$1.50	\$15.00
BOHEMIAN GIRL. Light pink	1.50	4.50	15.00
BRIDAL VEIL. Pure white	1.00	3.50	12.00
CHRISTMAS PINK ORCHID. Pink, white edges	3.00	10.00	35.00
MRS. A. A. SKACH. Bright pink	.65	2.00	7.50
MRS. JOHN M. BARKER. Large	1.50	4.50	15.00
MRS. M. SPANOLIN. Double; white	1.00	3.50	12.00
ORCHID BEAUTY. Rose-pink, with orange	.75	2.50	9.00
PINK-AND-WHITE ORCHID	.65	2.00	7.50
RED ORCHID. Bright cherry-red	.75	2.50	10.00
SENSATION. Newman & Legg's Christmas Pink Orchid	3.00	10.00	35.00
SENSATION SCARLET. Bright scarlet	3.00	10.00	35.00
THE CZAR. Rose, wings white, mottled pink	3.00	10.00	35.00
YARRAWA. Bright rose pink. AUSTRALIAN grown seed	2.00	7.00	24.00
CALIFORNIAN grown seed	.65	2.25	8.00
MIXED SPENCERS, WINTER FLOWERING: 1 oz., 65c; 1/4 lb., \$2.00; 1 lb., \$7.50.			

CYCLAMEN—Boddington's Gigantic

Choicest English Strains

	Tr.	100	1000		Tr.	100	1000
	pkt.	seeds	seeds		pkt.	seeds	seeds
CHERRY RED	\$0.50	\$1.00	\$9.00	PEACH BLOSSOM. Rose	\$0.25	\$0.75	\$7.00
CRIMSON	.25	.65	6.00	PRINCESS MAY. Pink	.50	1.00	9.00
CRIMSON AND WHITE	.50	1.00	9.00	ROSE OF MARIENTHAL. Shell pink	.25	.65	6.00
LILAC	.25	.65	6.00	SALMON KING	.50	1.00	9.00
PINK. Soft pink	.25	.65	6.00	SALMON QUEEN	.50	1.00	9.00
ROSE. Light rose	.25	.65	6.00	SALMONIUM SPLEN-			
SNOWFLAKE. White	.25	.65	6.00	DENS. Fine salmon-pink	.25	.80	7.50
SYRINGA-BLUE	.25	.65	6.00	VULCAN. Rich crimson	.50	2.00	18.50
WHITE BUTTERFLY	.50	1.00	9.00	WONDER (GLORY) OF			
PHOENIX. Crimson	.50	2.00	18.50	WANDSBEK. Salmon-red	.50	1.00	9.00
PURPLE KING	.25	.80	7.50	MIXED	.25	.60	5.50

MIGNONETTE, Boddington's Majesty. The best variety for greenhouse trade. Pkt. 60c., 1/2 oz. \$1.00, oz. \$7.50.

25 PER CENT. DISCOUNT FOR CASH WITH ORDER.

ARTHUR T. BODDINGTON CO., Inc.,

128 CHAMBERS ST.
NEW YORK CITY

FORCING SPRING FLOWERING SHRUBS.

Can you give me any information as to the proper method of treatment of forcing stock in winter storage.

I am handling a large quantity of Lilacs, Spirea, Azaleas, Skimmias, Rhododendrons, and so forth, for the winter and spring trade. Any information as to the light, air, water, and heat requirements for the successful handling of such stock would be very much appreciated.

In order to have good success in forcing shrubs all plants should have careful culture with that in view for one or two years previous. Lilacs should be potted and stored in a cool place until wanted. For early forcing they should be exposed to a week or more of freezing weather. After being housed they should have a temperature of 70 to 75 degrees. Syringe the wood several times daily and keep up a moist atmosphere. When the buds have grown one inch water freely and raise the temperature five to ten degrees. As soon as flowers begin to show gradually reduce the temperature to harden the blooms. Most other deciduous spring flowering shrubs may be given similar treatment. Azaleas should have the balls dipped in water until the roots are soaked through, as soon as received. Pot with good drainage and keep them close and shaded for a few days, spraying them daily after which place them in a cool, airy house at about 55 to 65 degrees. Do not push them into heat too rapidly and should any leaf growths appear they must be pinched out. After the buds show color, gradually accustom the plants to a cooler atmosphere.

Rhododendrons require

treatment similar to the azaleas. Keep them well syringed but as soon as the buds show color a dryer atmosphere will be essential as excessive dampness is dangerous. Fifty to 55 degrees is sufficient heat. Never allow them to get dry at the roots.

Spiraea (astilbe) clumps should be "heeled in" in frames and covered with litter until required. They require about three months from the time of starting until they are in bloom. After potting, soak them thoroughly and give heat very slowly at the start, gradually increasing, and keep them in full sun.

CATALOGUES RECEIVED.

Weeber & Don, New York.—Bulb Catalogue for 1916. An attractive issue.

Martin Kohankie, Painesville, Ohio. Wholesale Catalogue and Price List of field grown Nursery Stock, for 1916.

Joseph Breck & Sons, Boston, Mass. Autumn Catalogue of High Grade Bulbs. A boldly illustrated and impressive 60-page book, containing also a list of the Breck, Robinson Nursery Co., specialties.

Lord & Burnham Company, New York—"A Passing Glimpse at Some of the Vegetable Houses We Have Built"—an eight-page pamphlet, illustrated with handsome exterior and interior views of greenhouses devoted to vegetable forcing. Very timely on account of the Vegetable Growers' Convention in Chicago.

ADVANCING PRICES—WHY NOT?

I was certainly pleased to read in the paper of others taking up the advance of price. Gentlemen, you will have to raise or quit and now that the time is here when everyone else is making all degrees of advancement, why not get what is coming to you?

The grower who does not raise will be working for the other fellow soon unless he does, and right now. Look about you, pick out the man who got the better prices and either follow his lead, or as a "Safety First" movement go to him and engage a place with him because you will need the job soon and you may as well be prepared as the only thing now is "Preparedness."

Some growers I have met keep two books—a check book and a bank book. If the bank book shows a balance on the right side they think they have made some money but that may be because some one has left them some money and not because of superior ability in growing or salesmanship.

Men! It's up to you and it only requires a little nerve, some common sense and some brains. The team work will come just as soon as the other fellow sees that you are raising. He is only waiting and wishing you would start, so why not show him that you have the confidence in your products to demand the right price and get it. Don't be afraid of the "other fellow." He is human like yourself and you know that you could use a few more dollars, the same as all the rest of us—SO WAKE UP.

Sharon Hill, Pa.

P. M. READ.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

Clover for Seed

The Department of Agriculture reports that the acreage of clover for seed increased this year over last 9.1 per cent., equal or greater acreages being reported in all States except New York, in which it suffered a reduction to 97 from drought, and Wisconsin and Minnesota, in which it fell to 90 and 95 per cent. of last year from the effects of winterkill, drought, and the pasturing of the clover meadows. Marked increases are shown in all other important clover seed states of the North Central group, ranging from 105 in Iowa to 125 in Michigan and Nebraska.

The condition of the crop is reported at 84.1 per cent. of a normal, which is 3.8 higher than last year and 4.8 above the ten-year average, the condition being between 80 and 90 per cent. in all important clover seed states. Oregon reports 94, Washington 97, Mississippi 99 and New Jersey 100.

One Week's Imports

Imports at the port of New York, of horticultural material, for the week ending September 8, were recorded as follows:

Bulbs.—Azores, \$345; France, \$134,527; Netherlands, \$9,970; England, \$249; Bermuda, \$204; Japan, \$2,005.

Plants.—England, \$64; Bermuda, \$76.

Red clover seed.—Canada, \$424.

Clover seed.—France, \$4,620; Canada, \$6,143.

Grass seed.—Denmark, \$1,078; England, \$5,108.

Other seeds.—France, \$21,501; Italy, \$1,301; England, \$21,198.

Nitrate of potash.—England, \$35.

Other fertilizers.—England, \$244.

Largest Bulb Shipment

Twelve thousand five hundred cases of Dutch flower bulbs, said to be the largest cargo of its kind ever imported into the United States on one vessel, arrived at New York Sunday, September 17, on the Holland-America freighter Poeldyk from Rotterdam.

French Bulbs, etc.

All French bulbs are cleaning up rapidly in New York. Roman hyacinths are very scarce. Paper whites are firm in price. Candidum lilies, large sizes are all sold. French freesias are in fair demand, stocks small.

Notes

San Francisco, Cal.—A new seed store has been opened at 326-328 Market St., by W. F. Pitts Seed & Nursery Co.

Owensboro, Ky.—The Rapier Grain & Seed Company are erecting a new building to replace the one recently destroyed by fire.



LIL. FORMOSUM

Green Stem Type

This variety is desirable for flowering in January, February and March.

	Bulbs in each case	100	1000
6-8 inch	400	\$4.75	\$42.50
7-9 inch	300	6.50	58.00
8-9 inch	250	6.50	62.50
8-10 inch	225	8.75	82.50
9-10 inch	200	10.00	92.50
10-12 inch	150	14.00	130.00
12-14 inch		17.50	165.00

Send for New Wholesale Catalogue of Bulbs, etc., if you haven't a copy.

HENRY F. MICHELL CO.

518 Market St., Philadelphia

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

RE BELGIAN SHIPMENTS.

McHutchison & Co. are sending out the following statement:

With regard to fall shipments of Azaleas, etc. from Belgium, we are up against a serious problem; the German authorities will not allow the shipments to leave Belgium unless payment is made to the Belgian growers in advance. This of course is impracticable; money cannot be sent into Belgium, and the British will not pass the shipments through the blockade if payment is made to the Belgians, who of course are under the control of the German military authorities.

Up to June, 1915, the German authorities made no objection to the shipping of these goods. The British "Order in Council" went into effect about that time, and British permits were given on the understanding that payment be deposited in a bank in Great Britain to the credit of the shipper—not to be withdrawn without British consent. The German authorities evidently agreed to these conditions, as after much negotiation with the Belgian growers they likewise gave permits to ship, and shipments have come forward since on that basis.

As the strong censorship in Belgium prevents information coming from there, we did not get the exact text of the former agreement made; but from information which reached us in devious ways, we understood the British would release, through Belgian banks, part of the funds accumulated in the Banque Belge pour l'Etranger, London. Evidently not enough of the funds were released to satisfy the Germans, and that is likely the reason why they now stop shipments.

We surmounted all previous obstacles, got shipments through from Belgium each fall and spring since the war began, but the German authorities probably acted with deliberation in this case and did not allow suffi-

cient time for pressure to be brought to bear upon them to change or even modify their orders. Still, the situation was almost as bad last fall—yet shipments came, late we admit, but we shipped all our orders, so we are not without hope that this fall's shipments will yet come, though we feel you should know the situation.

The United States State Department acted energetically and placed the matter by cable directly before the German authorities in Belgium. The German and British Embassies are both lending assistance. Our Holland connections are in touch with Berlin and London, and the strong Syndicate of Belgian growers is negotiating direct with the German military authorities in Belgium, so you will see that every agency is working to the end that these shipments will come this season.

If shipments can be made, you will get yours—more we cannot promise. We even offered to advance payments through Holland for the shipments, then pay a second time through London, but the British authorities refused to allow the shipments to pass the blockade if payment had been made in advance for them.

Importers and others interested in getting into the United States the azaleas and other plants being held up through the action of Great Britain and Germany in refusing export permits on these from Belgium, are not dealing with possibilities, and are going right ahead in their efforts to prevail upon the Governments named, through our own State Department, to reverse their decisions. The whole story is aptly told by William F. Gude in a recent letter addressed to the Secretary of State.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. - - - BOSTON

Telephone Main 86.

Lilium Harrisii Bulbs

	Per 100	Per 1000
5 in. to 7 in.	\$5.00	\$40.00
7 in. to 9 in.	9.00	80.00
9 in. to 11 in.	22.00	

FREESIA REFRACTA ALBA

	Per 100	Per 1000
Mammoth Size	\$1.75	\$12.00

For Immediate Delivery

**PAPER WHITE NARCISSUS
GRANDIFLORUS**

Prices on Application

J. M. THORBURN & CO.

53 Barclay Street
Through to 54 Park Place
NEW YORK CITY

KELWAY & SON

SPECIALIZE IN

SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or
Forward

Only Address, LANGPORT, Eng.

Burpee's Seeds**PHILADELPHIA**

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT

J. BOLGIANO & SON**WHOLESALE FIELD AND GARDEN SEEDS**

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragons on
the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.**PHILADELPHIA, PA.**

My new Price List of
**WINTER-ORCHID-FLOWERING SWEET
PEA SEED**

Has been mailed. If you have not received
a copy, send me postal. Part of new crop
will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

MIGNONETTE**IMPROVED ECLIPSE.**

Superior to all others for winter bloom-
ing, exhibition, or cutting. Immense frag-
rant spikes 10 to 15 inches long. Green-
house grown seed from a re-selected strain.
Pkt. 25c., 1/16 oz. \$1.00. Catalogue upon
application.

THOMAS J. GREY CO., Seedsmen
29 So. Market St., Boston, Mass.

SOW NOW

FARQUHAR'S Giant Cyclamen



Awarded the Gold Medal of
the Massachusetts Horticul-
tural Society.

Blood Red**Crimson****Pink****Salmon****White**

**Excelsior, white with
claret base.**

Each of the above varieties,
100 seeds \$1; 1000 seeds \$10.

R. J. FARQUHAR & CO., 6 South Market Street
BOSTON

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.**AMERICAN BULB COMPANY**

172 N. Wabash Ave.

CHICAGO, - ILL.

We are now ready to book orders for French and Dutch
Bulbs, Lilies and other Florists' Necessities.

WRITE US FOR PRICES

POINSETTIAS**August Shipment**

True type, fine 2½ inch plants, shipped in
paper pots, \$3.00 per 100, \$50.00 per 1000.

A. HENDERSON & CO.

211 N. State St.

CHICAGO, ILL.

NEW CROP SEEDS

PANSY SEED. Giant flowering florist mix-
ture. American grown. (Best money can
buy.) 50c. per tr. pkt., ¼ oz. \$1.50, oz. \$5.00.
PANSY SEED SPECIAL. Greenhouse mix-
ture for forcing; long-stemmed. \$1.00 per
tr. pkt., ½ oz. \$1.50, ¼ oz. \$2.50; oz. \$8.00.
SWEET PEAS. Zvolanek's Orchid Flower-
ing in all varieties. I have his agency
this season.

ROMAN J. IRWIN,
Plants, Cuttings, Bulbs, Seeds.
108 West 28th Street - New York.

When writing to advertisers kindly
mention **HORTICULTURE**.

LILIUM GIGANTEUM**COLD STORAGE**

Extra Selected Stock. Gladiolus for for-
cing. Nansu, Colvillie or large flower-
ing type. Greenhouse Fertilisers. Ask
for 1916 Seed Catalogue.

Joseph Breck & Sons Corp., Seedsmen
47-54 No. Market St., BOSTON, MASS.

W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries

166 W. 23rd St., NEW YORK

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

ALEX. McCONNELL611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Cost of Cabling Foreign Deliveries Must be prepaid

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

For KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for New York. Write or Phone to

MAX SCHLING

22 West 59th Street, ☐ Adjoining Plaza Hotel
Best Florists in the States as References.
EUROPEAN ORDERS EXECUTED.
Members of the Florists' Telegraph Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO**DAVID CLARKE'S SONS**

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, ☐ New York
Telephone 1552-1553 Columbus

YOUNG & NUGENT42 West 28 Street
New York

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

WORCESTER, MASS.

Randall's Flower Shop

HARRY L. RANDALL, Proprietor.

Member Florists' Telegraph Delivery Association

Of Interest to Retail Florists**NEW FLOWER STORES**

Brainerd, Minn.—S. N. Mehlin.

Salem, O.—J. J. Gunn & Son, 140 East Main St.

Worcester, Mass.—Frank Fisher, Southbridge St.

Minneapolis, Minn.—Johnson & Co. 7 South 6th St.

St. Louis, Mo.—Miss Madeline Carol, Euclid & Maryland Sts.

Chicago.—Mrs. J. A. Weber, 7409 N. Clark street, to be known as The Garland.

Washington, D. C.—Columbia Cut Flower Company, David G. Grillbortzer, proprietor, Edward G. Bowers, manager, (wholesale).

WESTERLY FLORIST MISSING.

Efforts are being made by the police of New York city to locate Lewis P. Rankin, a Westerly, R. I. florist, who has been absent from his home and business since Tuesday morning, Sept. 12. Much anxiety has been felt by the relatives of Mr. Rankin since last Wednesday, when he was expected home, but the facts were suppressed from the public in hopes that his whereabouts might become known.

Mr. Rankin left Westerly on Tuesday morning for New York city. That afternoon he was in the shop of the S. S. Pennock-Meehan Co. on West 28th street. From the time he left there to the present he has not been seen or heard from. It is feared he has either met with some accident or foul play while in the city. Any one who has seen or heard of him since September 12 should communicate at once with the family.

NEW CORPORATIONS.

Boston.—The Wakefield Conservatories. Nicholas F. McCarthy, James T. Gray. \$10,000.

St. Louis, Mo.—W. A. Rowe Floral Company, capital stock, \$20,000. Incorporators, W. A. and Minnie Rowe and Elizabeth Karber.

Emmett, Tenn.—Farmers' Union Seed Company, capital stock, \$4,000. Incorporators, J. I. Wade, Chas. T. Faulkner, E. H. Hood and R. D. Smith.

Summit, N. J.—Under the name of the Rose Shop the store at 383 Springfield avenue had its formal opening on Saturday, September 16th. It is to be under the management of Howard Silcock, who has had a practical experience of some years as a florist.

Established 1874

DARDS**FLORIST**

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUDE BROS CO
1214 F ST NW
WASHINGTON DC

**GUDE BROS. CO.
WASHINGTON, D. C.**

Member Florists Telegraph Delivery

**IN THE
National Capital**

At your service to deliver Flowers or Designs on Order by Telegraph or otherwise. Prompt Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 406. Long Dist. Bell Phone 2739
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEWPORT, R. I.

145 Bellevue Avenue.

WE GUARANTEE SATISFACTION
MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.

NEW YORK 561 Fifth Ave.
Vanderbilt Hotel

BOSTON 1 Park Street
799 Boylston Street

Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON

5523 Euclid Ave.

Will take good care of your orders

Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.

F. H. KRAMER

Auto delivery of Designs and Flowers to
any address in Washington.

Stock and Work First Class

Orders Filled Day or Night for

CLEVELAND
and State of Ohio

Complete Stock. Regular discount to Trade.

KNOBLE BROS.

1836 W. 25th St., Cleveland, O.

Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.

735 Euclid Avenue

CLEVELAND, OHIO

Flowers of Every Kind in Season

HESS & SWOBODA

FLORISTS

Telephones 1591 and L 1592.

1415 Farnum St.,

OMAHA, NEB.

S. A. ANDERSON

440 Main St., Buffalo, N. Y.

ANDERSON service means fresh, sturdy
stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.

Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS

For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nabant, Mass.

KERR

ORDERS FOR

HOUSTON, TEXAS

The Florist

Member F. T. D.

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State
St.

Albany, N. Y.—The Rosery, 23 Steuben
St.

Albany, N. Y.—William C. Gloeckner, 97
State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont
St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

New London, Conn.—Reuter's.

Newport, R. I.—A. T. Bunyard, 145 Belle-
vue Ave.

New York—J. H. Small & Sons, 505 Mad-
ison Ave., at 52d St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

Penn The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 Tremont St., BOSTON

REUTER'S Members Florists
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between

New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER

4326-28 Olive St.

Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of

TORONTO

Delivered on mail or telegram order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP

8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

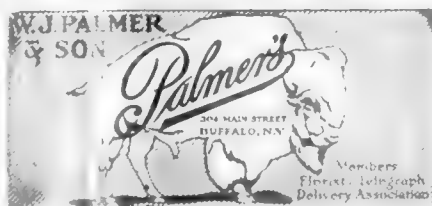
EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET,

ALBANY, N. Y.



NEWS ITEMS FROM EVERYWHERE

CHICAGO.

The first meeting of the creditors of David D. Johnson, bankrupt, will be held at 53 West Jackson Boulevard, Chicago, on September 26.

Dahhas have been about a half crop this fall, just when they would have sold, as one wholesaler stated this week. There are others who count the cut as much less.

The question heard most often in the market these days is "Have you any Russell roses." Allie Zech says this is the result of the stock being reduced one-half and the demand doubled.

J. Michaelson, of E. C. Amling Co., has just returned from the East where his special mission was to see the violet situation. He expects shipping to Chicago will be in full swing about the second week in October.

P. M. Koster of Koster & Co., Bos-Koop, Holland, has many interesting things to tell of conditions in his country at this time. Among other things he says it takes twice as long to reach this country as formerly.

Albert Cole backs up his contention that florists take their vacations too early, by citing the present season, when florists have little to do on account of light cuts of all kinds of stock and earlier in the summer when there was need of all the help to care for the trade. Paul Klingsporn, manager of the Chicago Flower Growers' Association takes his vacation last.

Retail florists are reporting the fall weddings as quite a feature in the opening of the season. If the quantity of flowers used at these events is limited by the higher prices, it causes the retailer no disappointment. With lily of the valley at five and six dollars a few less will answer in the bride's bouquet. One wholesaler suggests swainsona again while lily of the valley is scarce.

A light frost visited Chicago and vicinity on the night of Friday, Sept. 15, when the wind was from the north. Considerable anxiety was felt by florists and plantmen and work of covering up lasted well into the night. The damage was most in low places. Saturday night a south wind raised the temperature 15 degrees and danger was thought to be over when it veered again to the northwest and a severe frost occurred Sunday night. Reports from growers who ship their stock into this market tend to show that little outdoor stuff remains. Temperature was recorded as low as 26 degrees.

The Wm. J. Smyth store at Michigan avenue and 31st street is now free from the workmen who have had things their way since the last of June. With the renewal of the lease for five years at an advanced rental, the changes in the store were a consideration. The outer walls were removed and plate glass substituted, affording a most sightly display of all the attractive novelties in plants, vases from a tiny one to those 7 ft. tall,

accessories of every description and the novel colored wares now so popular for holding flowers. On Michigan avenue there is a 75 ft. unbroken stretch of glass and on 31st street 35 ft., with entrances at corner and at each extremity. The immense 75 ft. awning on the south is raised and lowered by a device easily handled by one man. The attractiveness of the interior is greatly enhanced by the windows which are 12 ft. high. The decorations are in white. Mr. Smyth has been in the retail flower business in Chicago many years and is known for his good taste as well as business ability and his improvements of the store have been watched with much interest.

WASHINGTON.

J. J. Bickings, recently a victim of a bad accident, is now at his home but unable as yet to do active work. Mr. Bickings' wagon was struck by a car, throwing him out and into the wheels of another wagon.

William, Adolph and Ernest Gude, accompanied by George W. Hess, Edward S. Schmid and Justice Gould, last week motored to White Marsh, Md., where they were the guests of Richard Vincent, Jr.

William Marche is receiving congratulations upon the attractiveness of his remodelled store. The florist has made the best of use of every inch of space, as he puts it, and he is to be commended upon the fine showing he now makes.

A number of the florists are practicing several nights each week as members of the Florists' Club bowling team. Those who will probably play with the team are George C. and Arthur Shaffer, Otto Schoeps, Edward Niedomanski, Milton Redman and George Gouldman.

A big showing of flowers, fruits and vegetables is expected for the Brookland Brotherhood show, October 3 and 4. David Oertly and Seabury G. Quinn are chairman and secretary, respectively, of the show committee. The judging committees will be composed of men from the Department, the Maryland Agricultural College, and it is expected that local florists will also be invited.

CINCINNATI

W. R. Murphy returned last Saturday from his out-of-town business trip.

W. A. Whitteher, of the J. M. McCullough's Sons Co., left last week on an extended business trip.

Mr. Chisholm, formerly with Bertermann Bros., Indianapolis, is now with the E. H. Hill Floral Co. store in this city, taking the place of Mr. Koob.

PHILADELPHIA.

M. Rice & Co. will move shortly to their new location at 1220 Spring Garden street.

The Joseph Heacock Co. have reopened their store on Ranstead, near 16th street.

NEW YORK.

Frank H. Traendly and family have returned to Brooklyn from Rowayton, Conn., where they have been summering.

The fall meeting of the directors of the Cut Flower Exchange will be held at Queensboro Plaza, L. I. City on Saturday afternoon, October 7.

T. A. Havemeyer has returned to town and flower show business should "hum" from now on. Mr. Havemeyer this year is chairman of the Flower Show committee.

C. H. Totty started on Wednesday on an automobile trip up the Hudson visiting his many customers among the private estates, etc. He will be gone about a week.

J. A. Peterson and wife of Cincinnati, O., passed through the city in their touring car last Friday on business and pleasure combined, registering 1200 miles since they started out.

The enormous amount of bulbs coming in from Holland has so congested the local mediums of disposal that the MacNiff Horticultural Company have had to change the hour for their sales from 11 to 10 A. M.

W. C. Van Name, manufacturer of florists' letters, etc., in Brooklyn, had the misfortune to lose his left eye, having been struck by a block from a circular saw running at 5,000 revolutions per minute. He has been four weeks in the hospital. The lens has been removed, but the eye is still in bad shape and probably will be for some time.

Attention is called to the Fifth Annual Public Exhibition of Living Aquarium Fish to be held in the Brooklyn Museum of the Brooklyn Institute of Arts and Sciences, Eastern Parkway and Washington avenue, Brooklyn, on September 21, 7.30 to 9.45 P. M.; September 22-23, 9 A. M. to 6 P. M.; September 24, 2 to 6 P. M. Chas. Tricker, manager of William Tricker, water lily specialist, will make an elaborate display of aquatic plants.

BOSTON.

The Florists Bowling Association will have a 10-team league this coming season and will begin their season Oct. 19 at the Arch street alleys.

M. H. Norton made his first trip to the business district on Wednesday of this week, after his long illness. He looked fine and received joyful congratulations on his recovery.

Thomas Roland has gone heavily into ericas this season and has an unprecedentedly fine stock of the beautiful King Edward, cupressina and other choice varieties in addition to the great holiday standby melanthra.

James F. M. Farquhar and Mrs. Farquhar have gone to spend the winter in Mandeville, Florida, sailing from New York on the Sixiola of the United Fruit Company's fleet. It is hoped that the tropical air will greatly improve Mr. Farquhar's health.

BASKETS BASKETS BASKETS

BUY YOUR FALL SUPPLIES NOW

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Hampers and Flower Bowls

Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

A warning against the white pine blister rust and a request for an appropriation of \$5000 to complete a survey of its inroads in Massachusetts timber from State Forester F. W. Rane has been referred by the Governor's Council to the supervisor of administration.

To Our Readers

Please
Look
Carefully
through the advertisements in this paper and you will surely Find
Something
You
Want.

**You Can Never
Buy Cheaper
Than Now!**

Obituary

Charles E. Chenery.

Charles E. Chenery, one of the oldest market gardeners in Massachusetts, died at his home, 52 Washington St., Belmont, Thursday, Sept. 14th, at the age of 75 years.

James Broadfoot.

James Broadfoot, for 45 years gardener for the late S. H. Hammond, Geneva, N. Y., died on September 3, aged 69 years. His son Robert is superintendent of Glenwood Cemetery, Geneva.

Arthur J. Leary.

Arthur J. Leary, head gardener on the estate of Mrs. John Nicholas Brown, was stricken with a hemorrhage at his home, Wellington Ave., Newport, R. I., on Tuesday, September 12th, and died within an hour. He was unmarried.

John Patterson.

John Patterson, a florist of Ashton, R. I., died on September 16, as the result of a shock sustained a week previous. He was 72 years old and a native of Stockport, England. Two sons, Herbert and Robert, of Ashton, survive him.

William J. Snow.

William J. Snow, for many years a successful florist of Waterbury, Conn., died in Milford, Conn., on September 13. Mr. Snow's establishment was burned out some years ago and he being in poor health did not resume, but went to Milford hoping to be benefited by the sea air.

Mrs. John H. Johnson.

We regret to record the death of Mrs. John H. Johnson, formerly Miss Rachael Rebstock, well-known and respected for many years in the florist trade of Buffalo, N. Y., sister of J. H. Rebstock, also prominent in the trade years ago. Mrs. Johnson died in the Women's hospital on September 11 after a long illness.

William Langstaff.

William Langstaff, an old-time gardener and former member of the S. A. F., died at his home in Indianapolis, Ind., aged 81 years. For many years Mr. Langstaff was superintendent at the Institution for the deaf. He was the first president of the Indiana State Florists' Association. Personally he was companionable and blithesome and his friends were many.

Mrs. Charles A. Taylor.

Mrs. Charles A. Taylor, eldest daughter of Malcolm MacRorie of South Orange, N. J., and sister of Dan MacRorie of San Francisco, died suddenly from heart disease at her home in Orange, N. J., on September 7. Mrs. Taylor was born in Comrie Perthshire, Scotland, September 20, 1871. She was for five years a teacher in the Orange public schools. Her husband, two sons, Malcolm M. and Edward A. Taylor; her parents, Mr. and Mrs. Malcolm MacRorie survive. She leaves also two sisters, Mrs. Thomas M. Wright of Canada and Miss Jeanette MacRorie of South Orange, and two brothers, John MacRorie of West Orange and Daniel MacRorie of San Francisco.

THE LATE JACKSON DAWSON.

Dear Mr. Editor:—I have only just read in your issue of August 12th of the death of Jackson Dawson, and if I may be allowed to do so, I should like to add my few poor words as a tribute to his memory. As you are aware I have been visiting the States for over 20 years, and my earliest recollection, and my latest recollection has been the same, the deep feeling of friendship for the man, and my intense admiration of his ability. I never met a better friend than Jackson Dawson and I never met anybody with such a brain for horticulture in its true sense, and I for one shall sadly miss his cheery presence and wonderful enthusiasm.

Yours sincerely,
F. GOMER WATERER.

Bareshot, England, Sept. 4.

LET US SUGGEST to you during the
hot months of the year

BEAUTIES

\$1.00—\$3.00 dozen

Grown from young plants for summer blooming, is an item we can recommend to you. The flowers are of a fair size, good color and clean foliage. If you cannot get them elsewhere, try us.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964—1965

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER Florists' Supplies

122 West 25th St., New York

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E.G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 1860 Madison Square

WOODROW & MARKETOS WHOLESALE

Plantsmen and Florists

37 and 39 West 28th St., NEW YORK



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

226 DEVONSHIRE ST.,
Telephone, Main 6267-6268

BOSTON, MASS.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON September 21		ST. LOUIS September 19		PHILA. September 20	
Roses						
Am. Beauty, Special	20.00	to 25.00	15.00	to 25.00	20.00	to 25.00
" " Fancy and Extra	15.00	to 20.00	8.00	to 10.00	10.00	to 15.00
" " No. 1 and culls	4.00	to 8.00	1.00	to 5.00	4.00	to 8.00
Russell, Hadley	2.00	to 10.00	5.00	to 10.00	2.00	to 12.00
Killarney, Hillingdon, Ward, Extra	4.00	to 6.00	5.00	to 8.00	6.00	to 8.00
" " Ordinary	1.00	to 2.00	3.00	to 4.00	2.00	to 4.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 6.00	.....	to .....	.....	to
" " Ordinary	1.00	to 2.00	.....	to .....	.....	to
Ophelia, Mock, Sunburst, Euler, Extra	3.00	to 8.00	5.00	to 8.00	6.00	to 8.00
" " Ordinary	1.00	to 2.00	2.00	to 3.00	2.00	to 4.00
Carnations	.....	to 1.50	2.00	to 3.00	1.00	to 2.00
Cattleyas	40.00	to 75.00	30.00	to 40.00	75.00	to 100.00
Dendrobium formosum	.....	to 30.00	.....	to	50.00	to 60.00
Lilies	7.00	to 10.00	10.00	to 12.50	8.00	to 10.00
Lily of the Valley	4.00	to 6.00	4.00	to 5.00	4.00	to 6.00
Snapdragon	.50	to 1.00	3.00	to 4.00	.50	to 1.00
Gladioli	1.00	to 3.00	3.00	to 4.00	2.00	to 4.00
Asters	.50	to 2.00	.....	to	1.00	to 4.00
Dahlias	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00
Gardenias	20.00	to 25.00	.....	to .....	.....	to
Adiantum	.....	to 1.00	1.00	to 1.25	.75	to 1.00
Smilax	10.00	to 15.00	12.00	to 15.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	2.00	to 25.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co. Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

J.A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

Business in the wholesale
BOSTON district is decidedly dull.

Not much stock is coming in, except roses, which are now on the rapid increase. Damp nights have had a deleterious influence on the asters and while they look fair when shipped they quickly discolor when taken from the boxes. Carnations are coming forward rather slowly. White flowers are enjoying the best demand, other colors hanging fire, except the deep purple asters, which are selling all right if in good condition. Gladioli are withdrawing slowly but surely from the front.

Things are quite satisfactory. Some days good and some days dull. Demand has fallen to white roses, lily of the valley, orchids and wedding flowers. Roses were more plentiful for a few days but the cool weather has again shortened them up. Chrysanthemums of Golden Glow variety are coming in and have had a ready sale. There is plenty of outdoor material, especially asters, gladioli, marigolds and other stuff. Lilies have been in good supply and these, too, have shared in the demand.

The market is tighter
CHICAGO now than at any other time this fall and quite possibly than at any other time in its history. Roses are off crop, carnations are late, asters about gone, chrysanthemums very slow getting started, and gladioli in many places killed by Sunday night's frost. No one cause can be given for all those things but the hot and dry summer is responsible for most of them. The counters and iceboxes present a forlorn appearance for almost as soon as boxes are emptied there are plenty waiting to secure stock for booked orders. Killarney roses are scarce and not very good, so they are not of much account in tiding over the present shortage on Mrs. Russell, which till now have been in very fair supply. American Beauties also are extremely scarce in all lengths. Asters are very near to the end and the growers of carnations have nothing to fear from them. A very few white chrysanthemums are added to the Golden Glow, but the big fall flowers are very late this year. Of miscellaneous stock there is none.

The first frost of the
CINCINNATI season came last Saturday morning. It was a light one and did no damage. The market is well supplied. Because of several large openings and the consequent demand business is rather brisk this week. Roses are in a fair supply. Carnations have come along nicely during the past fortnight until the cut now is steady and is large enough for all present wants. Asters are still plentiful. The same is true of gladioli, but these are no longer very good. Lilies are in a supply that is both large and good. Some excellent



The Queen Mary

Iridescent Corsage Shield

This season is now fast approaching and corsage bouquets will be all the rage, and every live florist should be prepared in advance with a good supply of our wonderful costume protector. Light, graceful, inexpensive. Appeals to every lady of refined taste. Waterproof colors: violet, white, pink, orchid, Nile green.

Per doz. \$2.25, per gross \$24.00

SILK VELOUR

For Window and Store Drapery

Our collection consists of more than forty colors and shades, width 70 inches. A lot of the popular colors are orange, yellow, delft blue, dark rose, brown, ruby and more than a dozen shades of dark and light greens. Send for samples and prices.

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	CINCINNATI September 21		CHICAGO September 19		BUFFALO September 19		PITTSBURG September 19	
Roses								
Am. Beauty, Special.....	20.00	to 25.00	25.00	to 30.00	20.00	to 25.00	.....	to 25.00
" Fancy and Extra.....	15.00	to 20.00	19.00	to 20.00	12.00	to 15.00	15.00	to 20.00
" No. 1 and culls.....	4.00	to 10.00	5.00	to 10.00	4.00	to 10.00	2.00	to 8.00
Russell, Hadley.....	6.00	to 10.00	3.00	to 20.00	.....	to 10.00	2.00	to 8.00
Killarney, Hillingdon, Ward, Extra.....	4.00	to 6.00	6.00	to 8.00	6.00	to 8.00	6.00	to 8.00
" Ord.....	3.00	to 4.00	2.00	to 4.00	3.00	to 4.00	8.00	to 4.00
Arenburg, Radiance, Taft, Key, Ex.....	4.00	to 6.00	.....	to 10.00	8.00	to 10.00	.....	to 10.00
" Ord.....	3.00	to 4.00	.....	to 10.00	3.00	to 4.00	.....	to 10.00
Ophelia, Mock, Sunburst, Euler, Ex.....	4.00	to 6.00	6.00	to 10.00	6.00	to 8.00	2.00	to 10.00
" Ord.....	3.00	to 4.00	2.00	to 4.00	3.00	to 5.00	.....	to 10.00
Carnations	1.00	to 2.00	1.00	to 1.50	.....	to 1.00	.....	to 1.00
Cattleyas	50.00	to 60.00	50.00	to 75.00	50.00	to 60.00	.....	to 50.00
Dendrobium formosum.....	.....	to 10.00	.....	to 12.00	8.00	to 12.00	8.00	to 10.00
Lilies	8.00	to 10.00	8.00	to 12.00	8.00	to 12.00	8.00	to 10.00
Lily of the Valley	5.00	to 6.00	4.00	to 6.00	4.00	to 6.00	.....	to 10.00
Snape dragon.....	.....	to 10.00	.....	to 10.00	3.00	to 6.00	1.00	to 2.00
Gladioli	3.00	to 5.00	2.00	to 4.00	2.00	to 4.00	2.00	to 4.00
Asters	2.00	to 4.00	1.00	to 5.00	1.00	to 3.00	.50	to 8.00
Dahlias	3.00	to 4.00	.....	to 1.00	1.00	to 3.00	.....	to 1.00
Gardenias.....	.....	to 1.00	.....	to 1.00	.....	to 1.00	.....	to 1.00
Adiantum.....	.....	to 1.00	.....	to 1.00	.50	to 1.00	1.00	to 1.25
Smilax	15.00	to 20.00	15.00	to 18.00	.....	to 15.00	.....	to 15.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 35.00	25.00	to 50.00	.....	to 35.00	30.00	to 40.00

dahlias are coming in. The cut of cosmos is large. A few yellow chrysanthemums may be had.

Stock is very scarce
NEW YORK but business is exceedingly quiet and prices exasperatingly low on most things. A cold snap following a storm has spoiled much of the outdoor stock. Gladioli and asters are gradually disappearing. Lilies, both longiflorum and speciosum are more in demand and the best quality roses are selling well, while, strange to say, lily of the valley is accumulating and does not command the prices recently prevailing. Cattleyas are a good thing to have at present if of fine quality. Chrysanthemums are gradually making their presence known. Golden Glow is in the lead yet, but there are also a few large blooms of pink and white and they sell quickly. Gardenias are good and in sufficient supply for the demand.

Vacations are
PHILADELPHIA nearly over and most of the active workers are back with their sleeves rolled up and fire in their eyes—which being interpreted means "Now, then, for more business and better business." That's the spirit. Nothing great was ever accomplished without enthusiasm. Last week trading was a bit more brisk and everything cleaned up fairly well. Roses are now more plentiful and the carnation is a little more in evidence. Asters and gladioli are still big features although we must expect them to gradually give way from now on. The dahlias are now arriving in quantity and come in handy for decorative work where nothing better can be had at a low price. Cattleyas are still scarce. There are a few other orchids such as oncidiums and cypripediums to be seen but not enough to make any stir in the market. Lilies are more plentiful.

(Continued on page 422)

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 148 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street
Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE { 608 } MADISON SQ., NEW YORK
609

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.
Tel. { 1593 } Mad. Sq. 119 W. 28 St., New York
5893

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 2870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.

Wholesale Commission
READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE { 2281 } FARRAGUT 131 West 28th St., NEW YORK CITY
3089

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS
ON HAND

GARDENIAS, DAISIES, ROSES, CARNATIONS

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 2483 Farragut

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones { 1664 } Madison Square
1665

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending Sept. 16 1916		First Half of Week beginning Sept. 18 1916	
American Beauty, Special	15.00	to 25.00	15.00	to 25.00
" " Fancy and Extra	10.00	to 15.00	8.00	to 15.00
" " No. 1 and culls.	2.00	to 8.00	1.00	to 8.00
Russell, Hadley	1.00	to 8.00	2.00	to 8.00
Killarney, Hillingdon, Ward, Extra	3.00	to 6.00	3.00	to 8.00
" Ordinary	.50	to 2.00	.75	to 2.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 6.00	.75	to 8.00
" Ordinary	.50	to 2.00	.75	to 8.00
Ophelia, Mock, Sunburst, Euler, Extra	4.00	to 8.00	4.00	to 8.00
" Ordinary	.50	to 2.00	.75	to 2.00
Carnations	.50	to 1.00	.50	to 1.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for doing
our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK

Phones 2036, 2037, 558 Farragut

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797-798-799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality.

114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13—8510 Madison Square

MAURICE L. GLASS, Treasurer

Consignments Solicited

Flower Market Reports

(Continued from page 41)

ST. LOUIS The condition of the local market remains about the same as a week ago. The cooler weather at the end of the week did brighten up things a little with the retailers, and a steady improvement is looked for from now on. There is no scarcity in stock; plenty of asters at any price and gladioli have sold cheap. Roses are small and carnations few and poor. Smilax is scarce.

Stock is less plentiful but there is enough to go around. Orchids continue to bring as high as \$9 a dozen and there is a better demand for these and for American Beauty roses, which are now quite good. There are more carnations coming in, and dahlias are more plentiful, but asters are fast waning and good ones are scarce. Lily of the valley continues very scarce. There is a better sale of cut flowers generally reported.

Visitors' Register

Cincinnati.—J. T. Heidegen, Aurora, Ind.

New York—Miss M. Craig, HORTICULTURE staff, Boston; "Tim" Waters, manager supply department Poehlmann Bros. Co., Chicago; Mr. and Mrs. J. A. Peterson, Cincinnati, O.

Washington, D. C.—F. C. Suchy and wife, San Antonio, Texas; S. H. Bayersdorfer, Phila., Pa.; H. B. Fiske, William H. Moon Co., Morrisville, Pa.; I. Rosnosky, H. F. Michell Co., Phila.

St. Louis—Arthur Schwerin, Burlington Willow Ware Shops, Burlington, Ia.; J. J. Karins, of H. A. Dreer, Phila.; Frank Farney, of M. Rice Co., Phila.; Robert Newcomb, of the American Bulb Co., Chicago.

Boston.—Tim. E. Waters, repr. Poehlmann Bros. Co., Chicago; Paul and Henry Dailedouze, Flatbush, N. Y., carrying golf sticks and heading toward Framingham; Geo. C. Perkins, Newark, N. Y.; Harry A. Barnard, repr. Stuart Low Co., Enfield, Eng.; A. E. Thatcher, repr. Mt. Desert Nursery Co., Bar Harbor, Me.; Jos. Fuller, Leominster, Mass.

Chicago—P. M. Koster, Boskoop, Holland; W. D. Fraser, representing The Cottage Gardens Nurseries, Inc., Eureka, Calif.; Henry Breitmeyer, Detroit, Mich.; B. Nicholas, of Dale & Nicholas, Hancock, Mich.; Mrs. J. K. Richter, Duluth, Minn.; Dr. J. L. Hanchette, Grassacres Gardens & Nursery Co., Sioux City, Ia.; A. T. Bushang, of the Gary Floral Co., Gary, Ind.; Mrs. Ella Benedict, People's Flower Store, LaSalle, Ill.

A rose to the living is more
Than sumptuous wreaths to the dead;
In filling love's infinite store,
A rose to the living is more,
If graciously given before
The hungering spirit is fled
A rose to the living is more
Than sumptuous wreaths to the dead.
—E. C.

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2004

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Sept. 16 1916	First Half of Week beginning Sept. 18 1916
Cattleyas.....	25.00 to 75.00	25.00 to 70.00
Dendrobium formosum.....	20.00 to 50.00	20.00 to 50.00
Lilies.....	4.00 to 6.00	4.00 to 6.00
Lily of the Valley.....	3.00 to 5.00	3.00 to 5.00
Snopdragon.....	.50 to 1.00	.50 to 1.00
Gladioli.....	.50 to 2.00	.50 to 2.00
Asters.....	.50 to 3.00	.50 to 2.00
Dahlias.....	.50 to 2.00	.50 to 2.00
Gardenias.....	10.00 to 25.00	10.00 to 25.00
Adiantum.....	.95 to .50	.25 to .90
Smilax.....	8.00 to 15.00	8.00 to 15.00
Asparagus Plumosus, & Spren (100 bunches).....	10.00 to 25.00	10.00 to 25.00

Beechwood Heights Nurseries

THOMAS YOUNG, JR., Proprietor.

Bound Brook, N. J., U. S. A.

Importers and Growers of

ORCHIDS

CUT FLOWERS OF ALL THE LEADING VARIETIES.

ORCHIDS IN THEIR SEASON.

ALSO GARDENIAS

PERSONAL.

William Turner has returned as superintendent of the Borden estate at Oceanic, N. J.

Announcement has been made of the engagement of Miss Helen, daughter of S. J. Goddard, Framingham, Mass., to Mr. Robert L. Lewis, also of Framingham.

J. Fred Dawson, together with John Olmsted of Brookline, Mass., is at Palos Verdes Ranch, San Pedro, Cal., starting the development of a piece of land, 17,000 acres in extent, for F. A. Vanderlip of New York. It is planned to build thirty miles of roads as a starter.

NEWS NOTES.

Shermerville, Ill.—The greenhouses of F. F. Scheel have been rented by F. and A. Kottrasch.

Hartford City, Ind.—Eighty per cent of the glass of the Hartford City Floral Company was destroyed by a hail storm on Sept. 7th.

Sacramento, Cal.—The main exhibit building and contents at the State Fair grounds was destroyed by fire Sept. 3rd and the loss is estimated at \$175,000.

Edgebrook, Ill.—The George Wittbold Company has purchased seven of the Weiland greenhouses at Evanston and will remove them to their range of Edgebrook.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK
Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of
Good Stock Solicited

PERCY W. RICHTER, Mgr., NEW YORK
111 W. 28th Street

HERMAN WEISS

Wholesale Florist

Experienced, Progressive and can handle shipments of growers' product satisfactorily.

106 West 28th St., NEW YORK
Tel. Farragut 3066.

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street
167 & 3058 Farragut NEW YORK

Established 1888 Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists

110 West 28th St., New York
We Solicit Consignments of New England Grown Novelties.

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square

BOSTON, MASS.

Telephone 2618-2617-2616, Main.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACACIAS

Stuart Low Co., Enfield, Eng.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

A. L. Miller, Jamaica, N. Y.
Asparagus Plumosus.
For page see List of Advertisers.
Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

AUCTION SALES

The MacNiff Horticultural Co., New York City.
For page see List of Advertisers.
Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.
Johnson & Millang, Inc., New York City.
Plants, Bulbs, Etc., at Auction.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.
August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price list.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.
A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.
R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

Mrs. J. A. Peterson (New), 2 1/4 in. pots, \$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.
King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.
Hirshings & Co., New York City.
For page see List of Advertisers.
Lord & Burnham Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.
Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

BOX TREES—Standards, Pyramids and Bush. Price list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

BOXWOOD

August Rolker & Sons, New York City.
For page see List of Advertisers.

BULBS AND TUBERS

Hogewoning & Sons, New York City, and Rynsburg, Holland.
Extra Selected Dutch-Grown Bulbs for Fall Planting.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Hyacinth, Narcissus and Freesia Refracta Alba Bulbs.

For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
French and Dutch Bulbs.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
Lily Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Rainbow and Purity Freesias.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.
A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York City.
For page see List of Advertisers.

The MacNiff Horticultural Co., Holland Grown Bulbs.
New York City.

For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc., New York City.
For page see List of Advertisers.

Fottler, Flske, Rawson Co., Boston, Mass.

Anglin & Walsh Co., Williamsbridge, N. Y.
Freesia Purity Bulbs.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

Mr. B. Progressive, Florist,
Everywhere, U. S. A.

Dear Sir: It will be a decided advantage as regards prices and quality to place your order with us.

Soliciting your order through this ad cuts down the overhead selling expenses and you positively get lower prices and better quality. Our terms are liberal and are a guarantee that you get a square deal, all bulbs guaranteed true to name or money refunded.

Write us and upon request we will mail you our booklet giving prices f. o. b. New York or Chicago, and we also cheerfully furnish you with any information that may be desired. Those of our friends who will mail us a list of their requirements will find it has paid them to do so.

Awaiting to hear from you at your pleasure, we remain,
Yours very truly,

Westerbeek & Kott,
Sassenheim, Holland
Write to WESTERBEEK & KLYNN, 14 STONE ST., NEW YORK, N. Y.

BULBS AND TUBERS—Continued

BULBS FOR SALE.

Freesia Purity, \$8.00 thousand. Hyacinths, named varieties. Single Early Tulips. Double Early Tulips. Single Late Tulips. Darwin Tulips, named varieties. Low Prices. Stock on hand. Prompt delivery. Single Tulips, mixed, \$4.50 thousand. Mixed Double Tulips, Single Late Tulips, Darwins, \$5.00 thousand. Double Nosed Von Stern Golden Spur; Bicolor Empress; Orange Phenix; Poeticus Ornatus and Emperor Narcissus. All above varieties on hand. THOMAS COGGER, Melrose, Mass. Phone, Melrose 761-W.

CARNATIONS

Cottage Gardens Co., Inc., Queens, N. Y.
New Carnation Cottage Maid.
For page see List of Advertisers.

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. J. Goddard, Framingham Centre, Mass.
Crimson Carnation Doris.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 postpaid. I. L. PILLSBURY, Galesburg, Ill.

CHRISTMAS PEPPERS

A. L. Miller, Jamaica, N. Y.
For page see List of Advertisers.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
Pompon Chrysanthemums.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.
Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Emma, a Garza Anemone, Double Pompon, pale pink.

CINERARIAS

2 1/2-inch pots

Half dwarf, selected strains, best colors: \$3.50 per 100, \$30.00 per 1000; 3-inch, \$5.00 per 100, \$40.00 per 1000.

Write today for our Plant Bulletin and Bulb List, containing everything you need.

S. S. PENNOCK-MEEHAN CO.,
1608-1620 Ludlow St., Philadelphia, Pa.

DAHLIAS

ORDERS BOOKED ANYTIME

For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

For List of Advertisers See Page 403

DECORATIVE PLANTS—Continued

Thomas Roland, Nalant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

EUONYMUS RADICANS

Euonymus Radicans. Several thousand, from rooted cuttings to sturdy plants four and five years old. This is a late leaf, quick growing variety of Radicans. It originated in this town and is extremely desirable. Price and sample plants on application. F. E. PALMER, INC., Brookline, Mass.

FERNS

A. M. Davenport, Watertown, Mass.
Ferns in Flats.
For page see List of Advertisers.

R. Vincent, Jr., & Sons Co., White Marsh, Maryland.
Boston Ferns.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.

FLORISTS' PLANT STOCK

Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FREESIAS

August Rolker & Sons, New York City.
Rainbow and Purity Freesias.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums: S. A. Nutt, 2 1/2 in.; also rooted cuttings. First class stock. Write for prices. FRANK LEITH & SON, Haverhill, Mass.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

Glass 6 x 8, 8 x 10, 10 x 12, 10 x 14, \$1.65 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset, Boston.
Pecky Cypress.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

John C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Hitchings & Co., New York City.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

Metropolitan Material Co., Brooklyn, N. Y.

A. T. Stearns Lumber Co., Boston, Mass.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

Pailsades Nurseries, Inc., Sparkill, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

HOT BED SASH

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co., Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset, Mass.

HOSE

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

INSECTICIDES

Hammond's Paint & Slug Shot Works, Beacon, N. Y.
Hammond's Thrip Juice No. 2.
For page see List of Advertisers.

Aphine Manufacturing Co., Madison, N. J.
Aphine.
For page see List of Advertisers.

INSECTICIDES—Continued

Aphine Mfg. Co., St. Louis, Mo.
Aphine Punk and Nikoteen.

For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.

For page see List of Advertisers.

R. G. Pratt Co., New York City.
Whys and Wherefores of Fall Spraying.

IRIS

John Lewis Childs, Flowerfield, N. Y.
German Iris.

Pallida Dalmatica, the largest and best German Iris. Beautiful Lavender. Extra fine divisions, \$10.00 per 100; smaller size, \$8.00. Cash, please. BROOKLAND GARDENS, Woburn, Mass.

LILY BULBS

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Lillium Harriell Bulbs.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hobmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Hatboro, Pa.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

R. & J. Farquhar & Co., Boston, Mass.
Trees.
For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Stuart Low Co., Enfield, Eng.

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

- F.F.P. - continued

LEONARD BROS. CO., Chicago Ill.
 BOSTON and NEW YORK OFFICES.
 For page see List of Advertisers.

Thomas J. Gray Co., Boston, Mass.
Wagonette, Improved Rolltop.
For page see List of Advertisers.

Boston, Mass. New York City.
 For page and list of A. C. Officers.

 Boston, Mass. New York City.
 Boston, Mass. New York City.

SNAPDRAGON
 100% Natural, 100% Pure, 100% Healthy
 100% Satisfaction, 100% Money Back
 100% Pure, 100% Natural, 100% Healthy

Live "phragmum moss" sold peat and
orchid baskets always on hand. **LAGER**
& HUBBELL, 1000 N. 1st St.

SWEET PEAS SEED
 Arthur T. Boddington Co. New York City.
 Winter Flowering Spencer Sweet Peas.
 For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Calif.
 Good Medicine of Honor for Gravid Sweet
 Peas.
 For page see List of Advertisers.

VASEH
H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS
R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

VENTILATING APPARATUS
The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES
Aphine Mfg. Co., Madison, N. J.
For prices see List of Advertisers.

WHEAT HEAVEN
H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS
W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWOKK
Reed & Keller, New York City
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE
WORKS, 204 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS
Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore
The S. S. Penneck Meehan Co., Franklin
and St. Paul Sts.
For page see List of Advertisers

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers

Patrick Welch, 202 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

11 M. Robinson & Co., 32 Old St. and 2
Winthrop Sq.
For page see List of Advertisers.

WHOLESALE FLORISTS
Brooklyn

Wm. H. Kuebler, 29 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 568-570 Washing-
For page see List of Advertisers.

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 264-266
Randolph St.
For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
For page see List of Advertisers.

Hentz & Nash, 55 and 57 W. 28th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Traendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

Woodrow & Marketos, 37 and 39 W. 28th St.
For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 53 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Guttman & Reynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunther Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

George W. Crawbuck Co., 57 West 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
For page see List of Advertisers.

WHOLESALE FLORISTS
Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 21 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.

New Offers In This Issue

CORSAGE SHIELDS.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

DREER'S ARAUCARIAS.

Henry A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

**EXTRA SELECTED DUTCH
GROWN BULBS.**

Hogewoning & Sons, New York City
For page see List of Advertisers.

**FARQUHAR'S GIANT CYCLAMEN
SEED**

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

HAMPERS AND FLOWER BOWLS.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

JAPAN IRIS.

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

LILIUM FORMOSUM.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

MAMMOTH AUCTION SALES.

MacNiff Horticultural Co., New York City.
For page see List of Advertisers.

**MIGNONETTE, BODDINGTON'S
MAJESTY.**

Arthur T. Boddington Co., Inc.,
New York City.
For page see List of Advertisers.

ORCHIDS AND GARDENIAS.

Beechwood Heights Nurseries,
Bound Brook, N. J.
For page see List of Advertisers.

THE NUT-GROWER

The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

WANTS, FOR SALE, ETC.

Advertisements in this column
one cent a word. Initials count
as words. Cash with order. All
correspondence addressed "Care
HORTICULTURE" should be sent
to 147 Summer St., Boston.

HELP WANTED

Wanted: A man who can take charge of
tensions, chrysanthemums and bedding plants
for retail business. Apply to
CHAS. C. BALL, Wakefield Conservatories,
Wakefield, Mass.

WANTED: A young man with experi-
ence in landscape work, draughting, etc.,
as assistant in our landscape department.
BERTRAND H. FARR, Wyomissing Nur-
series Co., Wyomissing, Pa.

SITUATIONS WANTED

Gardener, caretaker of second home, mar-
ried, no family. Practical knowledge in
routine greenhouse, vegetables, flowers
and fruits. Sober, active, industrious and
trustworthy. "X. Y. Z." HORTICULTURE
office.

Gardener with first-class references, 30
years old, married, no children. Experi-
ence in and outdoors on well-known private
places. Address "R. S.," care HORTICUL-
TURE, Boston.

FOR SALE

RETAIL STORE FOR SALE. Good will
and fixtures. Centrally located in live city
one-half hour from Philadelphia. Price
reasonable. Lease can be renewed. Owners
have other business. Apply "H. C.," care
G. C. Watson, 839 Market St., Philadel-
phia, Pa.

TREES, SHRUBS, VINES and HERBACEOUS PERENNIALS

By JOHN KIRKEGAARD

Formerly Assistant to Director of the Royal
Botanical Gardens, Copenhagen, Denmark.
Latterly Twenty Years in American For-
estry and Botanical Work.

Assisted by DR. H. T. FERNALD,
Professor of Entomology Massachusetts
Agricultural College and Entomologist,
Massachusetts Agricultural Experiment
Station.

and PROF. E. A. WHITE,
Professor of Floriculture, New York State
College of Agriculture at Cornell Univer-
sity.

A Great Book A Beautiful Book

A Comprehensive Book

A Practical Book By Practical Men

There Is No Other Book Like It

410 Pages. Planting Plans. Tabular De-
scription and Classification of Species. 59
Full-Page Illustrations in Tone. Authorita-
tive Articles on Many Subjects.

New Edition

BEAUTIFULLY BOUND IN CLOTH

Price only \$2.50 net. Mailing

Price, \$2.71. Money-Back
Guarantee

Order it from HORTICULTURE

147 Summer St., Boston

In writing to Advertisers kindly mention Horticulture

HARDY CHRYSANTHEMUMS

A Paper Read Before the Lawrence Garden Club, Lawrence, N. Y., by
Richard Vincent, Jr.

I am here today to talk on "The Hardy Chrysanthemum, the Queen of Late Autumn," for we find her reigning supreme when the early wintry blast has killed almost all other flowers. And the chrysanthemum is practically the only thing blooming to brighten up our beds and shrubbery, and the uses that it can be put to are almost unlimited. It is a flower that can be adapted to almost any locality and one easy of propagation and growth, and on this account is taking with the masses wherever fall adornment and beauty is required and people are beginning to find out there are varieties that are hardy and vigorous enough to withstand almost the severest of our winters, while there are others that are only suitable for conservatory or greenhouse growing. What varieties do best in your particular locality is a problem that you can test out far better than an outsider can tell you.

The hardy chrysanthemum, as the writer knew it, was an old-time favorite. The first mention that I can find of it was about the year 300, and with myself from boyhood up I have always liked it. Well do I remember the clumps as a child in my father's garden. Then came a craze and the large-flowered ones were "all the go," and the old-time pompons were practically forgotten.

Somewhere about fifteen years ago I took a notion that the discarded hardy chrysanthemums were entitled to a front place among our autumn flowers, and set about accomplishing the same, but was told by a number that I was a crank; that pompon chrysanthemums were a thing of the past, and there was no place for them. I persisted in my efforts to reintroduce them and results show whether I was right or not.

Nearly every florist the country over now uses them, and very few chrysanthemum decorations are thought complete without them whenever they can be obtained. When I had made up my mind to introduce them I found that there were very few varieties obtainable—a poor collection. But having set my mind on having a good collection we got all the varieties that were to be found anywhere. We crossed and recrossed the varieties, raising a

large number of seedlings—thousands of them—for several years, till we got up one of the best collections that up to that time the world had ever known. As soon as we had a good collection we commenced to advertise some and people woke up to their possibilities and soon hardy chrysanthemums were everywhere.

One of our first exhibitions was in the Macy building, New York City, and gardeners and visitors were amazed at their beauty. I believe that the next year we made another exhibit in New York where the Chrysanthemum Society of America held its show and meeting. Up to that time the American Society had not recognized hardy or single chrysanthemums. On the floor at that meeting I demanded recognition, and it was granted and from that time premium lists were not considered complete unless they contained classes for pompons and singles.

To have the finest of flowers the florists have whole greenhouses planted with them, as it is found that for extra fine work the field grown are often damaged by rains or early frosts and that while standing in the beds, etc. they will look fairly well, but when gathered they do not compare favorably with those grown inside for cut flowers, or design work.

Mr. Vincent then gave full details of propagation by cuttings, propagation by division, propagation by seed, suitable soils, manuring, insect pests,

diseases, remedies, planting in garden and replacing the beds of other flowers that have finished their season, potting up and setting in cool shady frames to hold back for house and conservatories, etc., also lists of varieties for early blooming, medium and late blooming, etc., and selected varieties for conservatories.

Mr. Vincent closed with the following original ode to the hardy chrysanthemum:

Queen of the Autumn I greet thee,
It is a joy sublime to meet thee,
Wonderful flowers of gold, pink and white,
They thrill me with memories bright.

Centuries old and yet with youth eternal,
A heart of gold and character supernal,
With open arms and smiling blooms to greet us.

Why do we love thee, we of these later days,
We are fascinated as we gaze upon thy face;
Surely some memory dear of the past enralls us.

Back to our father's garden memories call,
And as we journey, lovingly our thoughts grow fonder,
T'was father's flower and he loved it well,
We see its beauty, we love it as we ponder.

So Autumn Queen, we ever greet thee,
Thou art a flower to our memory most dear;
Our father's flower proud are we all to meet thee,
Proud of thy triumphs o'er autumn blasts.

And so with father's name we will link thee ever,
Father and Hardy 'Mums with all the years gone by;
And naught in all the years to come can hide thee, nevermore;
For thy love and beauty will stay with our memories evermore.

Ardisias are scarce and indications point to a very insufficient supply of this unexcelled Christmas berry-bearing plant this year.

Horticulture, with its clean-cut articles, deserves to be in the office of every florist. I enjoy reading same, and look for it each week and if not delivered would miss is very much.

I wish it all success.

A. L. MILLER,

Jamaica, N. Y.

A HOME GARDEN.



View in the Grounds of Wm. A. Clarke, of Pittsburgh Cut Flower Co., at Sheridan, Pa.

GREENKEEPING NOTES

Clovers are undesirable on putting greens, so take care that you do not manure the greens with manure containing phosphates in excess. A green apparently without clovers will often produce a large crop of clovers when manured with manures containing phosphates in excess.

Artificial manures do not act equally upon all soils and usually give better results on heavy soils. In any case, but particularly on light soils, they are not to be relied upon alone. Light soils are usually deficient in Humus and artificial manures add no Humus to the soil. Humus in the soil is a very great necessity for the growth of healthy grass and strong artificial manures are apt to destroy it especially in light soil. Humus should be obtained from farm yard manure, Rex Humus, or from a good compost containing plenty of either of these two sources.

Do not use farm fertilizers for growing grass unless you are sure of what you are doing. While very good for their intended purpose they are apt to be very ill balanced for use on grass. Farm yard manure made in a covered water-tight box or pit is half again as valuable as manure made in the open. If placed in uncovered heaps it loses a large percentage of ammonia by volatilization. If necessary to keep it in the open it should be covered with two or three inches of soil. The soil will fix and retain the ammonia.

Fall is the best time to use ground limestone.

Very frequently freshly dug land and imported soil will produce a strong crop of weeds, both annual and perennial. How the weed seeds get into the soil, and how long they will retain their germinating power, is a debatable matter into which it is not necessary for us to enter. Darwin tells us that seeds which germinate freely have been found in the little chamber at the end of a worm hole, at a depth of 8 feet. In his opinion these seeds were taken down the holes by the worms, with the object of lining the little chamber in which they winter in a dormant condition, so as to prevent their skins, through which they breathe, from coming into contact with the cold damp soil.

There are a multitude of different ways in which weed seeds get into the ground, and the only way of making a good lawn upon foul ground is to allow it to lay fallow, and clean it by frequently disturbing the surface with a hoe for a small plot, and a harrow for a large area.

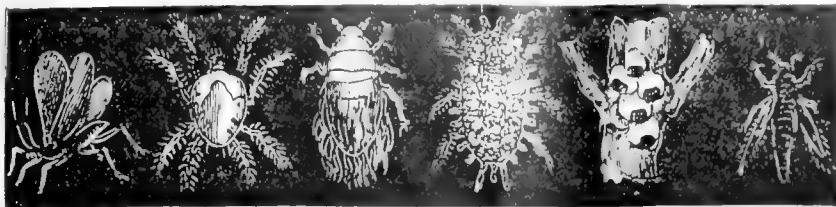
The work should be done during still, dry, bright weather, either in the fall or in the spring.

To free a lawn from tap-rooted weeds, divide the lawn into strips about 3 feet wide, take a basket to hold the weeds and a border fork with four flat prongs. Now, to remove the weed successfully, it is necessary to guess the depth of the root. Well-

Hammond's Thrip Juice No. 2

REGISTERED

A Contact Insecticide, Useful and Reliable, Used for 30 Years in Green-houses, and on Plants, Grape Vines, Trees and Shrubs



Some common Sucking Insects, magnified.

HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.

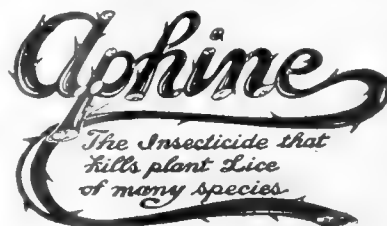
BAILEY'S NEW STANDARD Cyclopedia of Horticulture

Six large quarto volumes.
More than 3,600 pages. 24
exquisite full-page color
plates. 96 full-page sepia
halftones and more than
4,000 text engravings. 500
collaborators. Approx-
imately 4,000 genera, 15,000
species and 40,000 plant
names.

The new Standard Cyclopedia of Horticulture has been freshly written in the light of the most recent research and experience. It is not merely an ordinary revision or corrected edition of the old Cyclopedia, but it is a new work from start to finish with enlarged boundaries geographically and practically; it supersedes and displaces all previous editions or reprints of every kind whatsoever. It is both an Encyclopedia and a Manual, for with the aid of its Synopsis and Key, amateur and professional alike may quickly identify any plant, shrub or fruit contained within the set, and then receive expert instructions for its cultivation. Price \$6.00 per volume. Four volumes have now been issued and the others will follow in succession. Order from

HORTICULTURE PUBLISHING CO.

147 Summer Street, Boston, Mass.



The Recognized Standard Insecticide.
A spray remedy for green, black, white
fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 1% nicotine solution properly diluted
for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our
products FUMIGINE, VERMINE and SOL-
LINE will be subject to conditions of the
chemical market.

Prompt shipments can be guaranteed on
APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



IMP. SOAP SPRAY

Is a scientifically prepared compound
that is highly efficient for ALL insect
pests. Why bother with several sprays
when this will answer every purpose
throughout the year?

LOOK FOR THE IVY LEAF TRADE
MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON

When writing to advertisers kindly
mention **HORTICULTURE**.



NIKOTEEN

For Spraying
APHIS PUNK
For Fumigating

Ask Your Dealer For It.
NICOTINE MFG. CO.
ST. LOUIS

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

grown dandelions and docks will go down over a foot, the smaller ones and the rib grass about 6 inches. In the first case, force the fork into the turf as deep as it will go, and as far from the weed as the length of the prongs. By depressing the handle of the fork the turf will be forced up like a mole hill. If the distance has been guessed correctly it will crack on either side of the weed, which can then be removed easily. In the case of the smaller weeds, force the fork into the soil about 6 inches from the weed and about 6 inches deep, and go on as before. After a little practice it is possible to take out weed after weed without breaking or leaving behind any of the root, which if left might grow again. It is best to weed in this fashion when the soil is damp. Before rolling down the "mole hills" drop a pinch of seed into the hole left by the weed. Forking up the turf in this way tends to improve it. Removing the crown of a tap-rooted weed with a knife does more harm than good, as in most cases the weed will throw out several crowns to replace the one cut off. Always burn weeds, then you know for certain that they cannot give any more trouble.—*The Golf Course.*

FLOWERS, ANIMALS AND MEN

The organization of a society for the preservation of wild flowers seems the apt expression of an age which has determined to regard nothing living as alien to it. We have reached a period of human history in which man finally recognizes his oneness with the great tribe of life and is willing to receive all growing and sentient things into his protection and care. It is from this standpoint that he deplores the unregulated slaughter of the seal, the commercialized pursuit of the whale, the persecution of the American bison, the extermination of the dodo, the great auk, the solitaire,

the Eskimo curlew, the Labrador duck and the Carolina parakeet. The cry already goes up that the American flamingo, the scarlet ibis, the upland plover, the egret, sage grouse, heath hen and at least twenty other beautiful American birds are in danger of extinction. And now comes the turn of the flowers, for the arbutus or "mayflower" is disappearing, the mossassin flower shrinks away from sight, and unless the new society can prevent it we shall soon see the last of the cardinal flower, the Christmas fern, the partridge berry and the white pond lily.

If animals can have their rescue leagues and birds their Audubon societies, why should not "The Wild Flower Preservation Society of America" campaign against "the vandalistic plucking of flowers"? All these organizations deserve encouragement and support. It is impossible to estimate adequately the result of their work in terms of human uplift. We need more rather than less of it. But if a "higher intelligence" from some more favored planet were to visit us just now his commendation of that work would be tempered by reflections. He would notice that we were in the midst of a great war, and would observe with surprise that we were extending to the creatures below us the protection which we refuse to the members of our own kind. What we offer to the gaze of such a visitor is the spectacle of the whole resources of our science devoted to the slaughter of our fellow men. His report back to Mars or to some world in the parish of Arcturus would infallibly contain the declaration that we were at cross purposes with ourselves and had not yet risen to the rank of reasonable beings. And that report might very well conclude with the statement that when our race puts into the work of preventing men from killing and mutilating each other only half of the organized energy it now devotes to seeing that animals are not starved, that organ grinders are kind to their monkeys, and that hot plates are not used for the training of dancing bears, he will be the first to acknowledge that we have squared our practices with our sentiments.—*Boston Herald.*

GREENHOUSES BUILDING OR CONTEMPLATED.

Tuxedo, Md.—James Corridon, one house.

Reinbeck, Ia.—H. J. Watson, one house.

Merion, Pa.—Henry I. Faust, 200 ft. house.

Philadelphia, Pa.—Wm. K. Harris, one house.

Clifton, Va.—O. C. Ports, Wilson Creek, one house.

2094 Genesee St., two 100 ft. King houses, completed.

Middlebury, Vt.—Wm. L. Ford, North St., addition.

Utica, N. Y.—Mrs. John E. Price, 1815 Rutger St., one house.

Stamford, Conn.—Julia Kaufman, Strawberry Hill, one house.

Washington, D. C.—J. B. McCabe, house 28 x 160, house 30 x 160.

Buffalo, N. Y.—Wm. C. Buechi, Denver, Col.—Mauff Floral Co., Logan St., one house.

Itasca, Ill.—Henry H. Geils, two houses each 20 by 100; two houses each 28 by 100.

Darien, Conn.—Wm. Ziegler, Jr., conservatories, \$30,000. Lord & Burnham Co., architects.

**NON-KINK WOVEN HOSE**

In any length (one piece) with couplings, 14c. per foot. Unequaled at the price. Remnants, shorter than 50 feet, 10c. per foot, with couplings.

**HOSE VALVE—70c.**

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

**DREER'S**

Florist Specialties, New Brand, New Style. Hose "RIVERTON." Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST
1/2-inch, per ft., 15 c.
Red, 150 ft., " 14 1/2 c.
2 Reels, 100-ft., " 14 c.
1/2-inch, " 13 c.
Reels, 100-ft., " 12 1/2 c.

Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

BUSINESS TROUBLES

Buffalo, N. Y.—D. B. Sayer, florist, voluntary petition in bankruptcy, assets, \$100, liabilities, \$5,605.61.

PATENTS GRANTED.

1,197,866. Quack Grass Eradicator. Frank A. Sirek, Lonsdale, Minn.

1,198,178. Plant Protector. Abraham L. Bauer, Columbus, O.

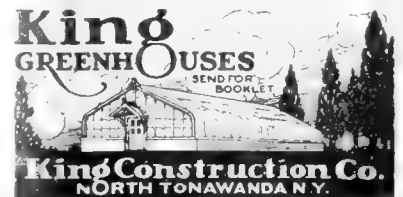
Brooklyn Botanic Garden Leaflet No. 10, is a popular article on the culture of bulbs, giving full instructions for indoor and outdoor culture.

STANDARD FLOWER**POTS**

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

30th & M Sts., Washington, D. C.

**Evans 20th Century Arm**

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.



FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame

GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, CHICAGO, ILL.

SHARP, PARTRIDGE & CO.

Are Leaders in

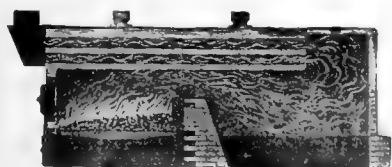
GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

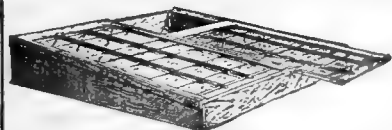
KROESCHELL BOILER

SEND FOR CATALOGUE



KROESCHELL BROS. CO.

486 W. Erie St. Chicago, Ill.



HOTBED SASH at 75c. each
Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.
Double Light Sash up to \$4.00.

We carry a large stock of all sizes.
Write us for estimate.

S. JACOBS & SONS

1359-1385 Flushing Avenue BROOKLYN, N. Y.

PATENTS

Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



EVERYTHING FOR THE GREENHOUSE John C. Moninger Company

CHICAGO NEW YORK
922 Blackhawk St. 812 Marbridge Bldg.
CINCINNATI, 2314 Union Central Bldg.

MASTICA



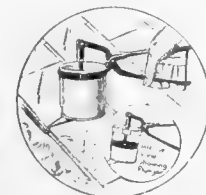
For Greenhouse
Glazing

USE IT NOW

F. O. PIERCE CO.

12W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

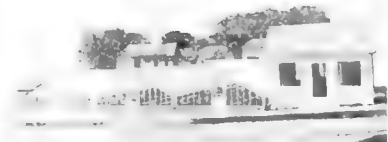
Seal-tight liquid putty at \$1.25 per gallon.
METROPOLITAN MATERIAL CO.
1392-1414 Metropolitan Ave., Brooklyn, N. Y.

GET OUR CATALOGUE

On Ventilating Apparatus and Greenhouse Fittings

ADVANCE CO., RICHMOND, IND

"IT WILL BE ANOTHER JACOBS HOUSE"



No sooner had we finished these three greenhouses for Vale Bros. of Pittsfield, Mass., than they started to consider building another, and wrote us "You can bet it will be a Jacobs House, and no other. Our houses are the talk of the town."

Each of these three semi-iron patented even span greenhouses is 21x150 feet, and is equipped with our patented iron gutters and ice clearing eave plates. We furnished all three complete including the heating system.

Why wouldn't they want their next greenhouse to be a Jacobs "and no other?"

WE KNOW WHAT TO DO AND WHAT NOT TO DO

What's more we can save money for you

S. Jacobs & Sons

Greenhouse Builders

1359-1385 Flushing Avenue
BROOKLYN, N. Y.

GLASS

GREENHOUSE MATERIAL
HOT-BED SASHES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

Dreer's Peerless Glazing Points

For Greenhouses

True and true, because both are on the same side. Can twist and break the glass driving Galvanized will not rust. No right or left. The Peerless Glazing Point is perfect. No others like it. Order from your dealer or from us.

1000 each, postpaid.

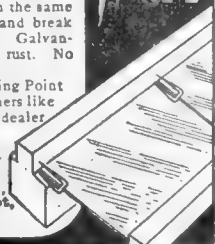
Sample free.

HENRY A. DREER,

916 Chestnut Street,

Philadelphia.

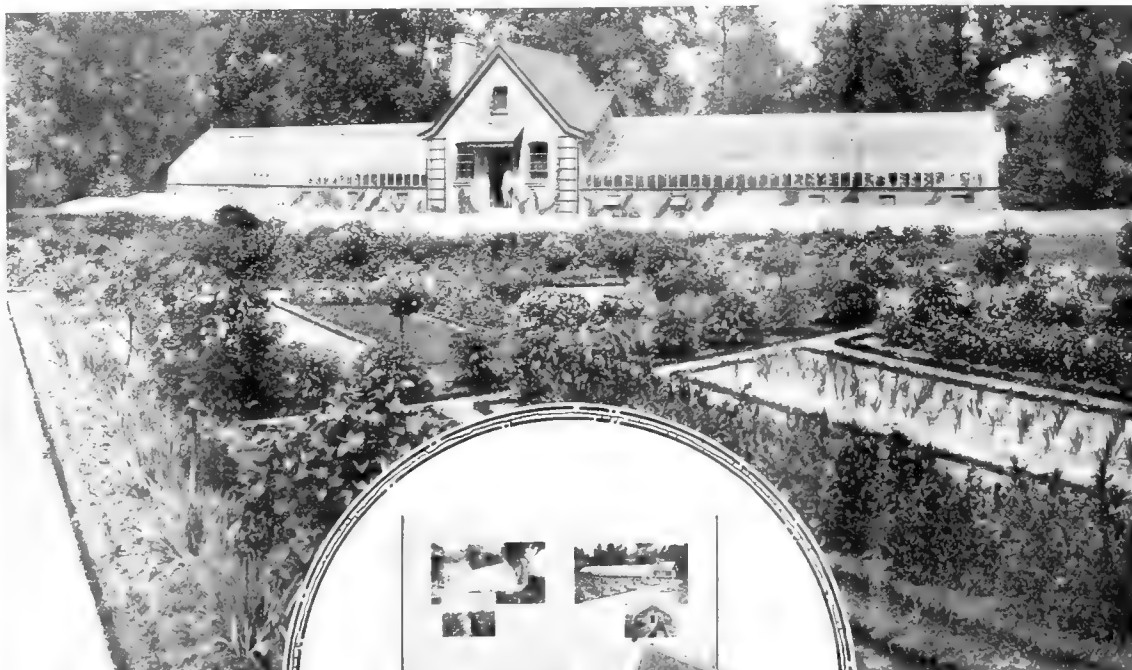
FULL
SIZE
No 2



THE FLORISTS' HAIL ASSOCIATION

is a mutual organization, insuring greenhouse glass against hail. Both commercial and private establishments are accepted. For particulars, address

John G. Esler, Sec., Saddle River, N. J.
Insure Now.



The Stewart Duncan four compartment house at Newport, R. I.

William MacGillivray is the Superintendent.

Gardeners and
Write
For This New



Superintendents
Today
Catalogue

IT is totally unlike other catalogs of private green-houses. It tells more in a short space. It shows more of the things that you have always wanted to know about.

Every subject illustrated, is a thoroughly practical one. There are none of the over ornamented, fussy-feather kind of houses that look attractive, but are sad failures when it becomes to growing.

Each page is surrounded with a delightfully restful border of greenery, which in combination with the

high excellence of the printing, makes a catalog of such striking beauty, that in the hands of your employer, it is bound to arouse a lively interest.

Send us the name and address of both your employer and yourself and we will promptly send you both a catalog. Or we will send you two, so you can when favorable opportunity offers, pass one along to your employer.

It may be just the entering wedge to get the houses you have so long wanted.

Let us know which way you prefer.

Hitchings and Company

NEW YORK
1170 Broadway

BOSTON
49 Federal Street

PHILADELPHIA
40 S. 15th Street

General Offices and Factory, Elizabeth, N. J.

Vol. XXIV
No. 14
SEPT. 30
1916

HORTICULTURE



Hydrangea Otaksa At Its Best

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription, \$1.00

NEW
HYBRID

ASTILBES

FOR
FORCING

You Cannot Afford to Grow the Older Kinds

Ceres—Pink. June—Rosy Violet.
Rose Perle—White Shaded Rose.
Silver White—Pure White. Venus—
Deep Rose. Vesta — Very Pale
Pink.

These all produce very large spikes about three feet tall and have magnificent foliage, making them **indispensable for conservatory, greenhouse or store decoration.**

*Strong Flowering Clumps
Ready for Immediate Shipment*

MOUNT DESERT NURSERIES
BAR HARBOR, MAINE

ANNOUNCEMENT

Commencing December, 1916, I shall disseminate

Crimson Carnation Doris

Awarded A. C. S. certificate at St. Louis, January, 1916, scoring 88 points after being in the boxes on the trip 48 hours. This will give some idea of its keeping and shipping qualities. Habit erect, producing an abundance of high-grade flowers on long stiff stems, fine color, calyx very seldom splits.

Price, \$12 per 100, \$100 per 1000

S. J. GODDARD, Framingham Centre, Mass.

COTTAGE MAID

A Sport of Mrs. C. W. Ward

Get your order in NOW for December and January delivery

\$12 per 100; \$100 per 1000

COTTAGE GARDENS CO., Inc.
QUEENS, NEW YORK

OLDEST AUCTION HOUSE

IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co.
42 Vesey St., New York

FERNS IN FLATS

Eight Best Varieties—200 Clumps to a Flat

\$2.00 per flat; 10 or more flats, \$1.90 each

A. M. DAVENPORT, Watertown, Mass.

CARNATIONS

Field Grown

ENCHANTRESS SUPREME. EUREKA
WHITE WONDER. PINK DELIGHT.
\$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL,
MATCHLESS,
\$7.00 per 100; \$55.00 per 1000.

LADY NORTHCLIFF, PINK WINBOR,
WHITE WINBOR.
\$6.00 per 100; \$50.00 per 1000.

WOOD BROS., FISHKILL, N. Y.

JAPAN IRIS SEEDLINGS

From Home Grown and Imported
Seed insuring a splendid
range of colors

50c. per doz.; \$3.00 per 100;
\$25.00 per 1000

Send for New Catalogue

JOHN LEWIS CHILDS, INC.,
FLOWERFIELD L. I., N. Y.

GARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

CHARLES H. TOTTY

CHRYSA NTHEMUMS
MADISON, N. J.

ORCHIDS

CONSERVATORY PLANTS
BEGONIAS
Lorraine, Cincinnati and Mrs. Peterson
JULIUS ROEHRS CO.
Rutherford, N. J.

Large Xmas Peppers

Also BIRD'S EYE PEPPERS

Exceptionally Fine 4 Inch Stock at
\$8.00 per Hundred.

ALSO

ASPARAGUS PLUMOSA

4 in. pots at \$8.00 per Hundred

Extra Fine Stock for Planting Out

A. L. MILLER

JAMAICA, N. Y.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, - N. Y.

A. N. Pierson, Inc.
CROMWELL, CONN.

Bedding Plants and Roses

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.

WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.

ROOSEVELTS—\$5 per 100, \$40 per 1000.

BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

ELMER D. SMITH & CO.
CHRYSA NTHEMUMS

Ask for Catalogue

ADRIAN, - - - MICH.

When writing to advertisers kindly
mention HORTICULTURE.

When writing to advertisers kindly
mention HORTICULTURE.

MAMMOTH AUCTION SALES

on **TUESDAY, OCT. 3** } 10 o'clock a. m.
and **FRIDAY, SEPT. 6** }

Mammoth Shipments of Dutch and French-Grown Bulbs

ALSO LOCAL CONSIGNMENTS OF

Palms, Ferns, Dracaenas, Rubbers, etc., to be offered in lots to suit the large and small buyer

Send for weekly auction catalogue.

The MacNiff Horticultural Co.

52 to 56 Vesey Street, NEW YORK

THE LARGEST HORTICULTURAL SALESROOMS IN THE WORLD

Hardy Roses

NEW YORK STATE two-year field-grown, Low-Budded and Own-Rooted Stock, in prime grading of leading "Florists' Varieties" of HYBRID TEAS, PERPETUALS, POLYANTHAS and CLIMBERS. November delivery ex. dock New York, packing free, per 100 \$12.50; per 1000 \$120. Write for list of varieties available. Stock is grown by *A1 firm under contract for*

AUGUST RÖLKER & SONS, 51 BARCLAY STREET, New York
or P. O. BOX 752

DRACAENA CANES

**FELIX
&
DYKHUIS**
Boskoop, Holland

Florist Stock for Forcing. Rhododendrons, Hydrangeas, Roses, Lilacs, etc. Nursery Stock. Aucubas, Buxus Bushes and Pyramids, Laurels, etc.

COLIN CAMPBELL, Importer, 90 Nassau Street, New York City

TREES

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties. Sturdy, choice stock that can be depended upon. Send for catalog and special trade prices.

The Bay State Nurseries

North Abington
Mass.

SHRUBS

This New England soil and climate produces fine sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St. Woburn Heights
P. O. No. 1, Hoboken N. J.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY. Small, medium and large sizes supplied. Price list now ready.

THE D. HILL NURSERY CO.
Evergreen Specialists. Largest Growers in America.
BOX 418, DUNDEE, ILL.

BOBBINK & ATKINS

Nurserymen, Florists
and Planters

RUTHERFORD, NEW JERSEY

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

REMEMBER!

If it's a Hardy Perennial or so called Old Fashion Flower worth growing, we have it in one shape and another the year round. We have the largest stock in this country, all made in America, and our prices

will average 75c. per doz., \$5.50 per 100.

Why say more here? Send for our Wholesale Price List of varieties and benefit from the opportunities this affords you. Address

PALISADES NURSERIES, Inc.

R. W. CLUCAS, Manager.

SPARKILL - - - N. Y.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

HATBORO, PA.

In Stock ROSE STAKES

EXTRA STIFF No. 9 GALV. WIRE
4½ feet—\$13.05 per 1000

CARNATION SUPPORTS

\$18.00 per 1000 plants.

THE CARNATION SUPPORT CO., Connersville, Ind.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants
MARKET and 49th STREETS, PHILADELPHIA, PA.

In Writing to Advertisers kindly mention Horticulture

FRENCH BULBS

PRICES ADVANCING

Moderate quantities—immediate deliveries

PAPER WHITES	
First size.....	\$7.00 per 500; \$15.00 per case of 1250
Extra size.....	10.00 per 500; 18.00 per case of 1000
TRUMPET MAJORS	
First size.....	\$15.00 per 1000; \$28.00 per case of 2200
GRAND SOLEIL D'OR	
First size.....	\$13.00 per 500; \$26.00 per case of 1100

ROMAN HYACINTHS	
First size.....	\$15.00 per 500; \$28.00 per 1000
	\$51.00 per case of 2000
Extra size.....	\$20.00 per 500; \$38.00 per 1000
	\$62.00 per case of 1700

BERMUDA LILIUM HARRISII, 9 x 11 inches,.....\$19.00 per case of 100

JAPAN BULBS

LILIUM GIGANTEUM

6 x 8.....	\$18.00 per case of 400; \$5.00 per 100	9 x 10.....	\$19.00 per case of 200; \$10.00 per 100
7 x 9.....	15.00 per case of 300; 6.00 per 100	9 x 11.....	19.00 per case of 180; 11.00 per 100
8 x 9.....	18.00 per case of 280; 7.00 per 100	10 x 11.....	18.00 per case of 150; 13.00 per 100
8 x 10.....	18.00 per case of 250; 8.00 per 100		

COLD STORAGE BULBS

FOR SHIPMENT ANY TIME DURING 1917

The prices include all charges for cartage, storage, etc., f. o. b. cars. Terms 60 days after shipment to responsible parties. Prices may be higher later.

GIGANTEUM	
Size 7 x 9.....	\$7.00 per 100; \$18.00 per case of 300
Size 9 x 10.....	12.00 per 100; 21.00 per case of 200

MAGNIFICUM	
Size 9 x 10.....	\$10.00 per 100; \$14.00 per case of 150

Deliveries from any of the following cities if you order in time. Better write at once and have us reserve them for you.

*NEW YORK	*CINCINNATI	*PITTSBURGH	*CHICAGO	GALVESTON
*DETROIT	*OMAHA	PHILADELPHIA	BOSTON	*DENVER
	*TORONTO	MINNEAPOLIS		

We are sold out in the other cities where we ship direct.

Cases of 100 each, and cases of 150 Magnificum can be furnished only from those cities marked with a (*). All sizes and all varieties always from headquarters at New York City.

HOLLAND BULBS

Direct importations from our Rotterdam office of good quality Dutch bulbs at prices consistent with costs at the time of exportation. Good Holland Bulbs are scarce this year reports to the contrary notwithstanding.

SINGLE TULIPS		Per 100	1000
Artus, scarlet.....		\$1.00	\$7.00
La Reine, white.....		1.00	7.50
Kelzerskroon, red and yellow.....		1.50	12.00
Cottage Maid, pink.....		1.00	7.50
Rose Grisdellin, white, pink shade.....		1.00	7.00
Yellow Prince, yellow.....		1.00	8.50
Belle Alliance, scarlet.....		1.50	10.00
DOUBLE TULIPS			
Murillo, white, rose tinge.....		\$1.25	\$10.00
Couronne d'Or, fine yellow.....		2.00	18.00
Imperator Rubrorum, scarlet.....		2.00	15.00
Tournesol, red and yellow.....		2.00	18.00
MIXED TULIPS			
Single Superfine Mixture.....		\$0.75	\$6.50
Double Superfine Mixture.....		.55	7.50
DARWIN AND COTTAGE TULIPS			
Clara Butt, delicate salmon pink.....		\$1.00	\$9.00
Pride of Haarlem, brilliant rose, blue base.....		2.00	15.00
Gretchen (Margaret), flesh color.....		1.00	9.00
Inglescombe, large yellow.....		2.50	20.00
Baronne de la Tonnaye, pink and blush.....		1.25	10.00
Madame Krelage, lilac rose.....		1.50	12.00
Gesneriana Spathulata, fine scarlet, blue base..		1.25	10.00

HYACINTHS		Per 100	1000
FIRST SIZE NAMED, good varieties.....		\$4.00	\$35.00
SECOND SIZE NAMED, good varieties.....		3.00	25.00
MINIATURE NAMED, good varieties.....		1.75	12.00
NARCISSI			
Poeticus Elvira, pure white, yellow eye.....		\$1.50	\$12.00
VON SION (Daffodils), double nosed bulbs.....		2.50	20.00
Priniceps, primrose, with yellow trumpet,			
Double nosed bulbs.....		1.25	10.00
Single nosed bulbs.....		1.00	8.00
GOLDEN SPUR, yellow, double nosed bulbs.....		2.50	22.50
Single nosed bulbs.....		1.50	13.00
EMPEROR, yellow trumpet, primrose perianth,			
Double nosed bulbs.....		2.00	17.00
Single nosed bulbs.....		1.50	13.00
VICTORIA, white perianth, yellow trumpet,			
Double nosed bulbs.....		2.50	20.00

MISCELLANEOUS	
Grape Hyacinths (Muscari), Heavenly Blue,	
very fine for early spring pot stuff.....	\$4.50 per 1000
Sriraeca Gladstone.....	\$6.00 per 50; \$10.00 per 100
Improved Queen Alexandra,	
pink.....	8.00 per 50; 15.00 per 100
New Pink Princess Mary.....	13.00 per 50; 25.00 per 100

RALPH M. WARD & CO.

THE LILY HOUSE

71-73 Murray Street, NEW YORK CITY

BRANCH AT ROTTERDAM



NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—*Pope*.

Cyclamens

Stock in 3½ or 4 inch pots in good growing order at this date should be kept moving, whether the plants will come in for Christmas or not. Only by taking good care of them now can you get pay for the months of trouble you had with them. While it would be folly to place backward plants of cyclamen in a warm house to hurry things up a bit one can accomplish a good deal by removing any plants that are not far enough advanced to a place where from now on they will have full sunlight and be kept a little on the dry side. While you grow the plants on a moist atmosphere is required in order to produce good foliage and stems, but this isn't so necessary when the plants are to set buds, and are expected to bloom.

Care of Carnations

Now that the days are becoming shorter syringing should be cut down to once a day, early in the morning, and even then they sometimes will have to be shaken to remove the surplus moisture so that they do not remain wet over night. When syringing, special attention should be given to the ends of the benches where pipes may be nearer the plants, and dry walks should be damped down every day. If a general syringing is not given every day the plants should at least get a spraying through the bottom from every other walk. It must be done early in the morning, so that they will dry off before night. Disbudding is another thing which must be done at the right time. When the plants are growing fast, they should be gone over at least once a week. You can apply a top dressing of loam and cow manure in equal parts, putting it on about half an inch thick. Apply a light dusting of bone flour, about 100 pounds to 2,000 square feet of bench surface. Keep the soil in the benches in as even state of moisture as possible.

Lorraine Begonias

Ventilate carefully as we are running into the shorter days now. If they have been grown along in a moderately warm house give them one now where a minimum of 50 degrees is kept. Stand them well up to the light. It is a good plan to suspend a number over the paths by wire hangers. Use care in watering and give liquid stimulants occasionally. Some of these are now sufficiently well bloomed to be quite salable. Now is a good time to do what tying is necessary. Some use three or four small stakes and surround the plants with a strand of silkline. Others prefer one stake in the center of the plant and the branches supported by a tie of this material. This should be done soon, so that the plant has time to assume a natural appearance.

Orchids

Shading can be reduced now as they will be better for all the light they can get. All such orchids as cattleyas, laelias, celogynes, odontoglossums, dendrobiums, miltonias, etc., can stand full sun by the middle of October. Give ventilation whenever possible as they all enjoy plenty of fresh air, outside those of the East Indian and tropical kinds. Make it a point to change the air at least once a day. Now when we are liable to have spells of dark and rainy weather we shall have to be very careful about watering orchids. A good rule to follow in whatever watering you do is to let it be done fairly early in the morning, which will give them a chance to dry out some before the night. From this out overhead syringing should be gradually discontinued. Where syringing is carried on, let it be done in the morning of bright days and only in the form of a fine misty spray. Orchids should be given a good cleaning at least once a month.

Peonies

The best time for planting peonies is September and October as soon as the temperature is cool enough for the plants to be sent without damage. Plant at least four feet apart each way and not too near voracious shrubs, the roots of which exhaust the soil. If the soil be poor, it should be copiously mixed with rich manure. Cow manure is the best for all light soils. Manure must not come into direct contact with roots. The plants should be inserted with the crowns or dormant buds about three inches below the surface and should then be well watered if it is at all dry. The peonies are perfectly hardy and so robust that they grow well in any ordinary garden soil. However, they furnish the best flowers when planted in good, deep-trenched ground, and in situations where the soil retains a moderate degree of dampness. Where old clumps are to be divided don't cut them up into too small pieces. Leave at least five or six good eyes to each clump. Grow six or eight of the best varieties and let the colors be white, light and dark pink and one good red.

Reminders

Pot on schizanthus before they become pot bound and make successional sowing for spring flowering.

Prick out pansies, violas, double daisies, myosotis, and other biennials or perennials for spring sales.

Give geraniums abundant ventilation and all the sunlight possible and water only when showing signs of dryness.

Now is the time to lift, divide and replant almost all kinds of hardy perennials. The earlier the work is now done the better will be the results for next year.

HORTICULTURE

VOL. XXIV

SEPTEMBER 30, 1916

NO. 14

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.
147 Summer Street, Boston, Mass.

 Telephone, Oxford 292.
 WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES:

 Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Hydrangea Otaksa At Its Best.	
NOTES ON CULTURE OF FLORISTS' STOCK—Cyclamens—Care of Carnations—Lorraine Begonias—Orchids—Peonies—Reminders—John J. M. Farrell..	439
ROSE GROWING UNDER GLASS—The Night Temperature—Repairs—Watering—Keep the Soil Rough—Asparagus and Smilax—Arthur C. Ruzicka.....	441
AMERICAN DAHLIA SOCIETY.....	442
CLUBS AND SOCIETIES—Meetings Next Week.....	443
American Association of Park Superintendents.....	444
New York State Federation—Connecticut Horticultural Society	445
Vegetable Growers' Association of America, Portraits	446
Lancaster County Florists' Association—Coming Exhibitions—Chrysanthemum Society of America...	451
Horticultural Society of New York—Club and Society Notes	460
SEED TRADE—One Week's Imports—Notes.....	446
OF INTEREST TO RETAIL FLORISTS:	
New Flower Stores.....	448
Flowers by Telegraph.....	449
NEWS ITEMS FROM EVERYWHERE:	
Chicago, Washington, New York, Boston.....	450
FLOWER MARKET REPORTS:	
Boston, Chicago, Cincinnati, New York, Philadelphia, Washington	453
OBITUARY—David Philip—George H. Sullivan—George W. Seavey—A. H. Murdock.....	455
DURING RECESS—Lenox Horticultural Society—The Farquhar Outing, Illustration.....	461
MISCELLANEOUS:	
News Notes	448
Michell's Flower Show	450
Visitors' Register	455
Hydrangea Otaksa at its Best.....	455
Catalogues Received	455
Publication Received	460
New Corporations	460
Greenhouses Building or Contemplated.....	461

That is very cheering news which comes from Chicago of the appearance in that market of azaleas commercially grown in our own country. It is, of course, too early to go to the extent of declaring the enterprise to be an unquestioned success. We do not yet know how well the American grown stock will respond to the usual fore-

ing methods or how the prices of the plants laid down at the florists' door will compare with the cost of the European material which has been our sole reliance hitherto. But we confidently expect to see the stock from California give a good account of itself and should it so turn out we shall regard it as one of the best things that has happened in the horticultural world for a long time. The intolerable conditions which the trade has had to face this fall in connection with the importation of Belgian plants make this new proposition all the more timely and welcome. With all our heart we hope it may turn out to be an unqualified success.

Dahlias and dahlias

Criticism of trade paper flower price quotations is a common occurrence. They are quoted "too high" or "too low" according to the critic's view point, but usually "there's a reason" and the reporter has exceptional opportunity to get the facts. In our saunter about the wholesale markets in New York this week we saw dahlias sold for fifty cents a hundred and we saw dahlias sold for seventy-five cents a dozen—a slight difference of twelve hundred per cent in market value! In each instance too, the stock brought its full value. The man who sent in the fifty-cents-a-hundred kind especially got all the stuff was worth. Slipshod culture and rough handling will make fifty cent quality out of four or six dollar quality in double quick time. When will growers learn to handle and pack their product, as though each flower was the only one of its kind? If you find your shipments are relegated to the rubbish class, you will not have to go far in the wholesale market, if you are an observant man, to learn "the why and wherefore" of some things.

The flower show; its use and its abuse

The "sky line", so to speak, of a flower show is a much stronger factor than exhibition managers seem to realize, in fixing its impression as a whole upon the visitor. We were much pleased and duly impressed, on entering the show room where the American Dahlia Society staged its annual exhibition, in New York this week, by the general arrangement and the evident purpose to break away from the monotonous flatness of the typical dahlia show. The central object was a slender vase design some nine feet tall deftly fashioned by the one New York retail florist who chose to represent his department of the floral industry by an exhibition of his handiwork. It was a very creditable piece of designing and as such worthy of commendation but the particular point we here wish to emphasize was its value as giving grace and character to the show as a whole, in conjunction with the several vases of long-stemmed blooms which helped to carry the eye above the common level of the ranks of single blooms. Dahlia shows, generally, have been largely monopolized by dealers who are there to take orders for named varieties for garden planting in the coming season and have not the slightest personal interest in the exploitation of the dahlia as a florists' cut flower or in the show itself beyond its use to them as a convenient and profitable means of displaying their samples as a sort of supplement to their catalogue lists. While this may be all right in its way, yet we must not lose sight of the fact that a public flower exhibition has other functions than to serve merely as a sample room for the dealers in dahlia roots.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

The Night Temperature

From now on careful attention must be paid to the night temperature in the houses if the roses are to do at all well. The way the nights have been here in southern New England the last week or two it is necessary to have heat every night right up to about eight o'clock in the morning. From 62 to 64 at night will be right, and the houses should not be run any cooler unless there are special reasons for so doing, as the days are still warm—hot in most cases—and if the houses were run a little cooler there would be too great a difference between the day and the night temperature, for roses should have a steady temperature as far as possible, with about 18 degrees difference between the day and night. This refers to clear days. On cloudy days it will be necessary to run the houses only about 4 degrees warmer than the night temperature. By a cloudy day we mean a day with no sun at all, and perhaps a little fog or rain. It will be best to carry air right along especially after syringing or watering. We always try to carry air until the temperature drops to 26 outside when the houses would first be closed up. Of course there may be rainy, or windy nights when it would be best to have the vents closed, as the air outside is worse than the air inside.

Repairs

Jack Frost is already nosing around nights and the bars on the houses will soon be wet all the time so that it will be very difficult to apply paint and putty. It will therefore be well to go over the place and see that all broken glass is repaired before the weather gets too cold. Repairing broken glass is not a very pleasant job at best but cold weather makes it much worse. There may also be other repairs that will have to be made. Look for loose bars in the old wooden houses and for decayed posts where no iron was used. The backs of the old greenhouses can also be made a great deal warmer by applying tar paper, which should be a good grade. We do not always like to do this, but in a pinch it has to do and then when we walk past the greenhouse we look the other way. Tar paper will mend an old leaky wall a good deal so that it will go two or three years before new boards have to be put on or the wall built up of concrete. The coal saved will pay for the paper the first year. While looking for broken glass see that all panes that may have slid down are replaced and nail properly. If time will permit it would pay to take them out and put new putty under them and after this treatment they will stay put for a while.

Watering

Watering will have to be done very carefully from now on. See that the leaves on the plants are not touched by the water, especially if it should be necessary to water on a cloudy day. By holding the nozzle close to the bench the water will strike the soil only and the foliage will remain dry. The plants should also be allowed to dry out fairly well between waterings so as to encourage the roots. If these get all they want right

around the plant they will spread very slowly. But if they have to get out and hustle they will soon spread through the soil in search of water, food, etc. When watering be careful to see that the poor plants that may be in the bench here and there are not overwatered. This can be avoided by going through the houses with a little lime and marking the cut-off plants or poor plants by scattering a little lime around them. With this system there will be no excuse for anyone to lose any plants that were all cut off and died because of too much water. By careful cutting some growth can always be left and if this is done there will be little danger from too much water. In the houses that were planted quite late it will not be safe to water the whole bench, but the circles around the plants should be increased as the roots spread out.

Keep the Soil Rough

As soon as the soil in the benches breaks up so that it will be all fine and not take water as it should, it should be given a light mulch of cow manure and good sod. There should not be too much soil in it as this as a rule becomes only a nuisance. Apply enough of the mulch to keep the water where you place it so that it will not run all over the benches and fairly drown the plants in places, and leaving others suffering for want of water. Deep scratching should be avoided as the roots are pretty well into the soil and if this is stirred too deeply some of the roots are sure to get torn and otherwise damaged. Every little check will tell in the long run, as it is the little things that gradually lead to the bigger ones. If manure is plentiful then this can be used by itself, but care should be taken to see that it is not applied too heavily. A light application is much better for the plants than a heavy one, it being much easier to control the moisture. But the surface of the soil should be kept rough and lumpy at all times to insure proper distribution of water and to protect the roots working in the compact soil just underneath.

Asparagus and Smilax

There are a few places growing only roses and not having any smilax or asparagus around, most places growing it in the cross houses and the ends of houses. With a little care these two can be made to make all the cross houses pay for their keep with a dollar or two to the good now and then. They are crops that can be held when the market is low so it is seldom that this will be a loss of any kind, besides there is always market for good asparagus and good smilax. A little mulching with horse manure now will do the greens worlds of good, as will an occasional dose of liquid manure to which a little nitrate is added. If there are not enough greens to make it worth while mixing the nitrate extra, it can be applied directly to the benches, being careful to see that the plants are wet enough at the roots but that the foliage is perfectly dry. If this is not so do not apply the nitrate as it will stick to the foliage here and there and will surely burn it or mark it so as to reduce its market value.

AMERICAN DAHLIA SOCIETY

The Annual Exhibition of this Society opened on Tuesday, September 26, at the Engineering Building, New York City in association with that of the American Institute. It can safely be said that this was the best and most impressive dahlia exhibition ever put up in this country. The halls were filled with exhibits of high individual quality and commendably arranged. A display worthy of high praise was that of W. Atlee Burpee & Co., arranged by George W. Kerr. Not only in quality of its material but in decorative effect as a whole it was a conspicuous success. This exhibit won the Michell gold medal. The Dreer silverware for floral design of dahlias was worthily won by Young & Nugent. The silver medal for general collection was won by H. Cottam & Son and the bronze by W. A. Manda. P. W. Popp got the Chapman cut glass vase for giant singles in vases and the Burpee cup for best vase, peony-flowered. W. C. Noonan was awarded the Vincent silverware for best vase, mixed. The Stout cup for best seedling cactus went to James Duthie and the Mordecai cup for best new seedling was won by Mrs. C. H. Stout.

Certificates of merit were awarded to Jean Kerr, pure white show, from W. Atlee Burpee & Co. Also to Fiery Cross, crimson scarlet peony, from Frank P. Quinby, White Plains, N. Y.

A certificate of merit was granted to J. F. Anderson, Bernardsville, N. J., for a seedling, Geisha \times J. B. Fry also to W. H. Waite for "Rohallion." Preliminary certificates were granted to Jas. Duthie for three seedlings, Nos. 2, 12, and 30. Special awards were made to Richard Vincent, Jr. & Sons Co., Mrs. Chapman, Jr., and Mills & Co.

In the regular schedule classes for commercial growers, W. D. Hathaway, New Bedford, Mass., won five 1st and Mills & Co., one 1st. Other winners were Maurice Fuld, C. Louis Al-ling, D. V. Howell and G. H. Walker. All these classes were contested by from four to eight competitors. Prominent winners in the gardeners' classes were James Kirby, P. W. Popp, Jos. Robinson, W. C. Noonan, Forbes & Keith, Arthur Daley, J. Gowans and W. H. Waite. In the "open to all" classes the big winners were John Lewis Childs, W. D. Hathaway, W. A. Manda, N. Harold Cottam & Son, Maurice Fuld, Brookcrest Gardens, Fred P. Webber, C. L. Al-ling, Jas. Gowans, O. P. Chapman, Jr., and A. E. Doty.

The Meeting

The Annual Meeting of the American Dahlia Society was called to order in a spacious room on the 12th floor of the Engineering Building at 3 P. M., September 26. President Vincent in the chair and every seat filled.

President's Address.

Ladies and Gentlemen, Members of the American Dahlia Society, I welcome you to this our second annual meeting.

We are not yet a year and a half

old, but with strength and vigor equal to some of the older floral organizations. Now, with two successful exhibitions to our credit, we feel well recompensed for the exertions we have made, and if success is to be continued, of which I have no doubt, it is in your hands. We have every assurance and belief that you will do your part to back up the officers.

As your retiring president I heartily express my appreciation of your kindness toward me and the good work done by all of you during my incumbence of the office. I request you kindly to continue in the good work and do your very best for those you may elect, as I assure you I will con-



R. VINCENT, JR.

President American Dahlia Society

tinue to do my little. Much of our success is due to our worthy secretary, and Mr. Eagleson, secretary of the American Institute, and the other officers.

The premiums offered at this meeting, we think, are very appropriate and numerous. The Institute has done grandly by us, as also the trade, with other kindred organizations and individual members, for which we are all truly thankful.

Nomenclature.

I would recommend the continuance of our present Nomenclature Committee, who have already done good work. They have a big task before them and it will possibly take several years before they can say it is complete. There is much to be accomplished, both in classification and in the elimination of duplicate varieties. Many are misnamed or similar varieties raised by growers who did not know that a similar variety already existed. There was no society in this country at the time of our inception to look after these matters or adjudicate upon a new variety. There has been also a few, and we are glad to say a very few, unscrupulous dealers who tried to mislead the public by using the

names to old or worthless varieties, thus misleading buyers and doing the dahlia cause harm. But with the education we are giving our members we will soon educate the buyers. With the description of new varieties given in our bulletins from time to time, they will know at once, when the plant blooms, if they have the true variety or not.

It is my opinion that it would be advisable to amend the by-laws in relation to new membership and dues. There is a great deal of objection to the initiation fee. I think that two dollars for active and one dollar straight for associate members, or ten dollars for club membership (affiliation) would bring us in more money than we are likely to get by sticking out for the membership fee.

Affiliation with the S. A. F. and O. H.

A number of our members worked hard to get a sufficient number of S. A. F. members so that we would have the one hundred required for representation with that body, but failed. We need this to put us on a par with other societies. All good work needs some little sacrifice from the individual. Will you, as a member of this society, help us in this? It has to be done previous to January, 1917, to entitle us to representation for that year.

Dahlia Trial Grounds.

We have two trial grounds in different sections of the country. One is at the New York Experiment Station at Geneva, under Prof. F. H. Hall; the other at the St. Paul (Minn.) Experimental Farm, under Prof. Le Roy Gady. Prof. J. B. Norton, of the Maryland Agricultural Station, and others are experimenting with numerous varieties and all types.

We think that we will be able to give the dahlia world, in our quarterly bulletins, some interesting and valuable information during the coming year, and anyone having anything interesting to communicate is invited to send it to the publisher of the bulletin.

The reports of secretary and treasurer followed, as below:

Report of the Secretary.

The support that the American Dahlia Society has received since its inception in New York on May 10, 1915, has been eminently encouraging. To the end of August, 1916, the total paid-up membership was 244, being 169 active members and 75 associate members.

The first annual show was held on September 24 and 25 in the Museum of Natural History, New York city. With all flowers that are cultivated entirely out of doors there is always a large element of risk owing to periods of bad or unfavorable weather. It happened that the period of three weeks immediately preceding the exhibition was the hottest and driest of the whole summer and autumn, terminating in violent thunderstorms with rain, which destroyed the flowers of several of the large growers. Despite these drawbacks the show was a good one and was attended by 35,000 visitors.

Early in the present year a change was made necessary in the secretaryship of the society owing to the increasing pressure of Mr. Joseph J.

THE WORLD'S SERIES

ARE AWAITED BY THE "FANS" WITH GREAT INTEREST

Do not fail to interest yourself in the large auction sales held by

JOHNSON & MILLANG, Inc.

AUCTIONEERS

Coogan Building, 55-57 West 26th Street, New York
Under Cut Flower Exchange.

Sales of Dahlias, Tulips, Gladioli, etc., at 10:00 A. M. High
Grown Decorative Plants,
Flowers, etc., devoted to our general
business.

WRITE FOR CATALOGUE.

Lane's business duties. Mr. Lane did yeoman service in his part in getting the society started and placing it on a good running basis, and the committee publicly acknowledged its indebtedness to him. Since March the duties of the secretarial office have been undertaken by J. Harrison Dick.

The society has made progress in the work which it was established to promote and conduct. A quarterly bulletin of information has been published. By and through this the members are kept informed of what is being done not only in the society but in the dahlia world generally, and the notes on the cultural treatment of dahlias have been much appreciated. Four issues of the bulletin have appeared. Copies have been distributed both by the society and by members to many dahlia lovers who have not yet joined our organization. The greater our membership the bigger and better will the bulletins be. They cost considerable to publish and only in proportion to the increase in membership can the volume of the bulletins be augmented.

Trials of dahlias have been undertaken and reports will be published. The thanks of the executive committee is tendered to the directorates of the two experimental stations and to Professors F. H. Hall and Le Roy Cadz.

An affiliation scheme whereby local dahlia clubs or associations can receive certain substantial privileges and assistance on payment of the nominal sum of ten dollars annually, was put in operation early in the summer. The Short Hills Garden Club, N. J., and the Oyster Bay Horticultural Society, N. Y., have become affiliated, and negotiations with this object in view are in progress with others.

A scheme of points for judging dahlias has been prepared and will be placed before the members for their suggestions. It is hoped that an authoritative, practicable scheme will be endorsed and adopted.

The carefully prepared scheme for the classification of all the types of dahlias was published in March, and has been adopted by many of the leading commercial growers in their catalogues, as well as by others. It is the wish of the committee that this classification arrangement be regarded as official and be adhered to.

The definition of "amateur" as applied to our exhibitor member has also been published and its adoption by the annual meeting is recommended.

An artistic certificate of merit has been prepared. This will be awarded to dahlia novelties at the society's exhibition or at the exhibitions of its affiliated societies, or at such other exhibitions or meetings as your executive committee endorses. An original medal of pleasing design has been made in silver and bronze respectively. It is hoped that later this medal will also be struck in gold.

In some parts of the country the

Meetings Next Week

Monday, Oct. 2.

Bernardsville Horticultural Society, Horticultural Hall, Bernardsville, N. J.
Elberon Horticultural Society, Fire Hall, Elberon, N. J.
Houston Florists' Club, Chamber of Commerce Rooms, Houston, Tex.
Montreal Gardeners' and Florists' Club, Montreal, Canada
New Bedford Horticultural Society, New Bedford, Mass.
Washington Florists' Club, Washington, D. C.

Tuesday, Oct. 3.

Florists' and Gardeners' Club of Holyoke and Northampton, Mass.
Lake Geneva Gardeners' and Foremen's Association, Horticultural Hall, Lake Geneva, Wis.
Los Angeles County Horticultural Society, Los Angeles, Cal.
Paterson Floricultural Society, Y. M. C. A. Bldg., Paterson, N. J.
Philadelphia Florists' Club, Horticultural Hall, Philadelphia, Pa.
Pittsburgh Florists' and Gardeners' Club, Fort Pitt Hotel, Pittsburgh, Pa.

Wednesday, Oct. 4.

Tuxedo Horticultural Society, Tuxedo Park, N. Y.

Thursday, Oct. 5.

Albany Florists' Club, Albany, N. Y.
Reading (Pa.) Florists' Association, Reading, Pa.
Southampton Horticultural Society, Odd Fellows Hall, Southampton, N. Y.

Friday, Oct. 6.

North Shore Horticultural Society, Manchester, Mass.
North Shore Horticultural Society, Lake Forest, Ill.
Pasadena Horticultural Society, Pasadena, Calif.
Yonkers Horticultural Society, Yonkers, N. Y.
People's Park Cottage Gardeners Association, Paterson, N. J.

Saturday, Oct. 7.

Pacific Coast Horticultural Society, San Francisco, Calif.

past growing season has been very trying, even resulting in heavy losses owing to the rotting of the roots by the prolonged rains. In other sections, as in Michigan and the Middle West, a drought seriously crippled the growth of the plants at midsummer. Despite these penalizing difficulties the interest in dahlias at this time is surprisingly great. New dahlia clubs are springing up, shows are being arranged, numberless seedling dahlias are being bred and raised, the use of dahlias for gardens and as cut flowers for December is increasing, and there is evidence on all sides of the great need of a strong, guiding, leading, authoritative society devoted to the interest of this noble flower, and this is furnished in the American Dahlia Society, national in its aims, its character and its membership.

Report of the Treasurer.

Receipts.

Total receipts through Jos. J. Lane, sec'y, from May, 1915, to March, 1916	\$839.50
Received from J. H. Dick, sec'y, March to Sept. 20, 1916.	177.10
	\$1,016.60

Disbursements.

For printing, bulletins, certificates of merit, stationery, etc.	\$301.57
Mfr. of dies and medals	55.50
Bottles, expressage, help at show, dinner, etc., 1915.	57.50
To Messrs. Young, Shaw and Lewis at show, 1915.	45.00
Jos. J. Lane, as salary and expenses	76.18
Paid out for prizes, 1915 show.	197.50
J. Harrison Dick, stenographic help and postage.	32.56
F. R. Austin, treasurer, postage and telegram	3.50
Balance in treasurer's hands, Sept. 20, 1916	\$769.61
	246.99
	\$1,016.60

Election of Officers.

R. Vincent, Jr., White Marsh, Md., was re-elected president; J. Harrison Dick, 1426 Seventy-third St., Brooklyn, was re-elected secretary; Frank R. Austin, re-elected treasurer, while

COMPLETE PLANTING LISTS FILLED

Realizing the annoyance caused by inability to complete plantings on account of lack of some rare or scarce variety, we aim to make our service notable by its completeness. If you can't find just what you want, write us; we have a very complete list of rare Conifers, Shades, Shrubs and Vines, besides the plentiful and easy-to-grow things.

PRINCETON NURSERIES, Princeton, New Jersey

("An hour and a quarter—a dollar and a quarter—from New York or Philadelphia.")

LILY BULBS

Fall Shipment from Japan

Prices quoted F.O.B. New York, Chicago, Denver, San Francisco and London (Ont.)

Write for quotations stating quantity, variety and size required.

McHUTCHISON & CO. The Import House
95 Chambers St., New York

FREESIA PURITY BULBS

Florists' Forcing Size, ½ to ⅝ inch

\$7.50 per 1000 High Grade Bulbs

ANGLIN & WALSH CO.

Williamsbridge, N. Y.

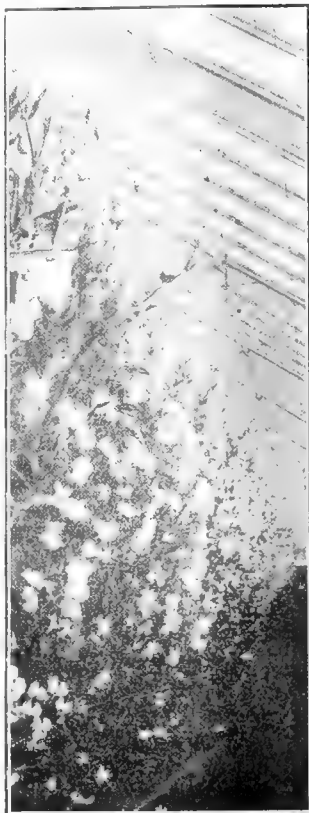
ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. BOSTON
Telephone Main 55.



Boddington's Re-selected Winter-flowering Spencers as grown by Wm. Sim, Cliftondale, Mass.

WINTER SPENCER SWEET PEAS

	1 oz.	4 oz.	lb.
APRICOT ORCHID. Mostly apricot self.....	\$1.50	\$4.50	\$15.00
BOHEMIAN GIRL. Light pink.....	1.50	4.50	15.00
BRIDAL VEIL. Pure white.....	1.00	3.50	12.00
CHRISTMAS PINK ORCHID. Pink, white wings.....	3.00	10.00	35.00
MRS. A. A. SKACH. Bright pink.....	.65	2.00	7.50
MRS. JOHN M. BARKER. Lilac.....	1.50	4.50	15.00
MRS. M. SPANOLIN. Double; white.....	1.00	3.50	12.00
ORCHID BEAUTY. Rose-pink, with orange.....	.75	2.50	9.00
PINK-AND-WHITE ORCHID.....	.65	2.00	7.50
RED ORCHID. Bright cherry-red.....	.75	2.50	10.00
SENSATION. Newman & Legg's Christmas Pink Orchid.....	3.00	10.00	35.00
SENSATION SCARLET. Bright scarlet.....	3.00	10.00	35.00
THE CZAR. Rose, wings white, mottled pink.....	3.00	10.00	35.00
YARRAWA. Bright rose pink. AUSTRALIAN grown seed.....	2.00	7.00	24.00
CALIFORNIAN grown seed.....	.65	2.25	8.00
MIXED SPENCERS, WINTER FLOWERING: oz., 65c.; ¼ lb., \$2.00; lb., \$7.50.			

CYCLAMEN—Boddington's Gigantic

Choicest English Strains

	Tr. pkt.	100 seeds	1000 seeds		Tr. pkt.	100 seeds	1000 seeds
CHERRY RED.....	\$0.50	\$1.00	\$9.00	PEACH BLOSSOM. Rose.....	\$0.25	\$0.75	\$7.00
CRIMSON.....	.25	.65	6.00	PRINCESS MAY. Pink.....	.50	1.00	9.00
CRIMSON AND WHITE.....	.50	1.00	9.00	ROSE OF MARIENTHAL. Shell pink.....	.25	.65	6.00
LILAC.....	.25	.65	6.00	SALMON KINK.....	.50	1.00	9.00
PINK. Soft pink.....	.25	.65	6.00	SALMON QUEEN.....	.50	1.00	9.00
ROSE. Light rose.....	.25	.65	6.00	SALMONIUM SPLENDENS. Fine salmon-pink.....	.25	.80	7.50
SNOWFLAKE. White.....	.25	.65	6.00	VULCAN. Rich crimson.....	.50	2.00	18.50
SYRINGA-BLUE.....	.25	.65	6.00	WONDER (GLORY) OF WANDSBEK. Salmon-red.....	.50	1.00	9.00
WHITE BUTTERFLY.....	.50	1.00	9.00	MIXED.....	.25	.60	5.50
PHOENIX. Crimson.....	.50	2.00	18.50				
PURPLE KING.....	.25	.80	7.50				

MIGNONETTE—Boddington's Majesty

The best variety for greenhouse trade. Pkt. 60c., ¼ oz. \$1.00, oz. \$7.50.

5 PER CENT. DISCOUNT FOR CASH WITH ORDER.

ARTHUR T. BODDINGTON CO., Inc.,

**128 CHAMBERS ST.
NEW YORK CITY**

the executive committee, consisting of James Duthie, I. S. Hendrickson, Geo. W. Kerr, P. W. Popp, were re-elected, and Joseph J. Lane was chosen to the place left vacant by Mr. Dick. The nomenclature committee was re-elected, namely, Prof. F. H. Hall, chairman, L. K. Peacock, Geo. W. Fraser, Jos. Kirby and Leonard Barron. The vice-presidents elected were Geo. L. Stillman, representing the north; E. S. Brown, representing the east; Prof. J. B. Norton, representing the south; W. W. Wilmore, representing the west, and the Rev. W. O. Wyckoff, representing the central west.

It was agreed to abolish the dollar initiation fee and to make a uniform annual subscription of \$2, thus doing away with the associate memberships.

The society's classification scheme was endorsed by the meeting and the secretary was asked to write to dahlia firms and others, suggesting that they publish the classification scheme in their catalogs.

Considerable discussion took place on the proposition to have a complete list of dahlia names published, said list having been prepared, it was stated, by Prof. Hall. It was the desire of the meeting that the publication be accomplished.

The question, "What is an Amateur?" was also debated, but the question bristled with so many difficulties that no action was taken, the chairman humorously remarking that such matters should be left for his successor.

The meeting was of an open, free, more or less informal character, the speaking being participated in by quite a number of those present.

The Banquet

This was a very pleasant little reunion, attended by about thirty-five members and friends on Tuesday evening, at the Hotel Navarre. It was announced as the first annual dinner of the society, but no formal speeches were made.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

The eighteenth annual convention will be held in New Orleans, La., October 10, 11, 12, 1916. The program:

First Day, Tuesday, Oct. 10.

9.00 A. M.—Executive Committee will meet to consider credentials and applications for membership.

10.00 A. M.—Session called to order. Minutes, applications for membership and report of Executive Committee on same. Election of new members. Report of officers. Appointment of committees.

Address of welcome, Mayor of New Orleans. Response by President E. T. Moseley. Noon adjournment.

Afternoon: Recreation provided by local hosts. Automobile tours of Audubon Park and City Park. Refreshments at City Park.

8.00 P. M.—Business session in Convention Hall. President's Annual Address. Communications, Resolutions, Committee Reports, New Business.

Second Day, Wednesday, Oct. 11.

9.00 A. M.—Business session. Papers and discussions. "City Planning in Relation to Park Properties," by Prof. James Sturgis Pray.

Discussion leaders: W. S. Manning of Baltimore, H. W. Busch of Detroit, C. C. Lancy of Rochester.

"Playgrounds in Parks from a Designer's Standpoint," by Frederick Law Olmsted.

Discussion leaders: H. S. Richards of Chicago, M. L. Moore of Toledo, Laurie D. Cox of Syracuse.

Afternoon: Recreation provided by local hosts. Trip to City Nursery, West End Lake Shore Park and Southern Yacht Club. Refreshments at the Yacht Club.

Evening Session, 8.00 P. M.—Papers and Discussions. "Trend of the Playground Movement as It Affects Parks," by Lebert Howard Weir.

Discussion leaders: J. B. Shea of Boston, G. W. Burke of Pittsburgh, Fred C. Albers of Cleveland.

"Efficiency and Accounting in Park Administration," by Frank S. Staley, Director of Minneapolis Bureau Municipal Research.

Discussion leaders: Theodore Wirth of Minneapolis, Geo. A. Parker of Hartford, A. A. Fiske of Racine.

Third Day, Thursday, Oct. 12.

9.00 A. M.—Final Business Session. Reports of Committees. Election of Officers. Selection of place of next meeting. Unfinished Business. Question Box.

Afternoon: Recreation provided by local hosts. Boat trip around New Orleans harbor.

7.00 P. M.—Banquet at Grunewald Hotel. Each person pays for his own plate. Newly elected President as toast-master. Short talks by newly elected officers.

"The Role of National Parks in the Nation's Life," by R. H. Marshall of Washington, D. C.

"Functions and Evolution of Municipal Parks," by James B. Shea of Boston.

"What This Convention Means to Us," by William Allen of New Orleans.

"Auld Lang Syne."

Convention Committee: William Allen, New Orleans, La.; Chas. W. Davis, Memphis, Tenn.; Nelson Crist, Atlanta, Ga.; Clarence L. Brock, Houston, Texas; John Meisenbacher, Tulsa, Okla. Assisted by Local New Orleans Committee.

DREER'S ARAUCARIAS



ARAUCARIA (NORFOLK ISLAND PINE)

We have a good supply of Araucarias. You gain the benefit not only of the fall's growth by laying in your supplies now but to many points shipments by freight can now be made with safety at a saving of transportation charges.

Araucaria Excelsa

	Each
5-inch pots, 8 to 10 inches high, 2 to 3 tiers.....	\$0.40
5-inch pots, 10 inches high, 3 tiers.....	.50
6-inch pots, 10 to 12 inches high, 3 to 4 tiers.....	.60
6-inch pots, 12 to 15 inches high, 3 to 4 tiers.....	.75
6-inch pots, 16 to 18 inches high, 4 tiers.....	1.00
7-inch pots, 18 to 20 inches high, 4 to 5 tiers.....	1.25

Araucaria Excelsa Glauca

	Each
5-inch pots, 8 to 10 inches high, 3 tiers.....	\$0.75
6-inch pots, 10 to 12 inches high, 3 to 4 tiers.....	1.00

Araucaria Robusta Compacta

	Each
6-inch pots, 12 inches high, 2 to 3 tiers.....	\$1.00
6-inch pots, 14 to 16 inches high, 3 tiers.....	1.50
7-inch pots, 18 to 20 inches high, 3 to 4 tiers.....	2.00

The above prices are intended for the trade only

HENRY A. DREER
714-716 Chestnut St., PHILADELPHIA, PA.

N. Y. STATE FEDERATION.

Amateur and professional horticulturists from all parts of the state journeyed to the State Fair grounds at Syracuse to attend the annual meeting of the State Federation of Horticultural Societies and Floral Clubs held last week.

It was expected that drastic resolutions would be introduced relative to the need of a new horticultural building, but on the announcement that Governor Whitman, Speaker Sweet of the Assembly and the Fair Commissioners had promised that the horticultural interests were to receive the attention of the Legislature and be provided with a new building there was prolonged cheering.

A committee was appointed to co-operate with all horticultural interests to assist in the passage of the measure. The committee consists of Frank R. Pierson of Tarrytown, Erl A. Bates of Syracuse, C. P. Wortman of Oswego, Prof. E. A. White of Ithaca, Prof. David Lumsden of Ithaca and George E. Thorp of Syracuse.

The constitution was changed so that the winter meeting of the society will be held during farmers week at Ithaca and the spring meeting to be held in connection with the flower show in New York. Resolutions were adopted instructing the Legislative Committee to secure \$50,000 for greenhouses at Cornell for floriculture and vegetable culture.

Although a determined effort was made to re-elect Mr. Bates as president, he withdrew on the ground that inasmuch as ninety per cent. of the

members are commercial florists and growers, the best interests of the federation and the fair would be served by the election of a man in that branch, and Frank R. Pierson, mayor of Tarrytown, was chosen. Mr. Bates was elected first vice-president, Charles H. Vick of Rochester second vice-president, Hugh McCarthy of Syracuse third vice-president, Frederick A. Danker of Albany fourth vice-president and George E. Thorpe fifth vice-president. Prof. E. A. White of the Department of Floriculture of Cornell was elected secretary and W. A. Adams of Buffalo was chosen treasurer. The federation received into membership several new organizations, and it now numbers thirty-six organizations.

Plans were drawn which center authority with an executive board consisting of the president of each affiliated organization and which would include Rev. Dr. E. M. Mills, as president of the Syracuse Rose Society; Henry Youell, president of the growers' association, and Hugh McCarthy, head of the retailers' society.

CONNECTICUT HORTICULTURAL SOCIETY.

This society held its first fall meeting on Friday evening, September 22,

President Hollister presiding. This was "Dahlia Night" and there were two splendid exhibits of dahlias. John F. Huss had on exhibition a collection of some ninety varieties and Warren S. Mason displayed thirty of more varieties among which were some wonderful specimens. Both displays received first-class certificates. G. Ogren exhibited Mexican poppies and asters.

Mr. Huss in his remarks complained of the depredations made by grasshoppers, many of his dahlia blooms being entirely eaten by these pests. He also commented on the unusually fine season for the dahlia, the weather conditions being all in its favor. E. M. Smith, of the East Hartford Dahlia Gardens, gave an interesting talk on the history of the dahlia. Mr. Smith stated that he had received several secret tips, "tricks of the trade," while at the Boston Flower Show. One was to dip about half-an-inch of the stem into hot water, just warm enough so the hand could be placed in it, and then on arrival at the show to cut off about an inch of the stem and the bloom would last longer and look just as fresh as when first cut.

The meeting was well attended and thoroughly appreciated.

ALFRED DIXON, Secy.
Wethersfield, Conn.

HOGEWONING
BULBS — BULBS — BULBS

Watch for Advertisement Next Week

VEGETABLE GROWERS' ASSOCIATION OF AMERICA.

About 270 men and women were registered at the 9th annual convention of the Vegetable Growers' Association of America, at its opening session (September 26), and another hundred more lacked opportunity to do so, making the attendance a record-breaker, when the meeting was called to order on the 19th floor of the La Salle hotel. The place is admirably adapted to such conventions, having room for trade exhibits, vegetable and canned fruit displays, and assembly hall on the same floor. Those who have attended the previous conventions are delighted with the opening.

Mr. Gore, of the Chamber of Commerce extended a welcome in behalf of Chicago, and tried to impress his hearers with the idea that the activities they saw about them did not mean there was no hospitality in the hearts of Chicagoans, but that the pursuit of business was here followed with the spirit of "Run or you will be



H. W. SELBY

Vice President Vegetable Growers' Association of America.

stepped on." Fred Lautenschlager briefly welcomed members in behalf of the Chicago Convention Committee and A. Geweke spoke for the Cook Co. Truck Gardeners' and Farmers' Association in which he emphasized honesty in measure to the purchaser and honesty to the soil that he cultivates. He referred to the devastation wrought by the frost in the fields which they would visit, and the great loss to the growers who lose much of the season's crop. In response E. A. Dunbar of Ashtabula, O., briefly outlined the life of the organization and said of its record "Work did it." Howard W. Selby of Philadelphia, vice-president, ably presided and gave the address in the absence of the president.

At this writing, the trade exhibits are not all in place, but every foot of space is taken. The displays of vegetables are remarkably good for the season and are largely the results of the work of the school children. These also are not complete.



SEEDS for the FLORIST

ASTERS QUEEN of the MARKET.

The best extra early variety, large, double flowers, on long stems, in colors: Crimson, Dark Blue, Light Blue, Rose Peach Blossom, White.

Trade Packet, 20c., Oz., 75c.

Sweet Peas, Cyclamen, Primulas, Lily of the Valley, from Our Own Cold Storage Plant.

Our Trade List Mailed on Application.

FOTTLER, FISKE, RAWSON CO., THE SEED STORE BOSTON
Fanemil Hall Square

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

SEED TRADE.

One Week's Imports.

Imports at the port of New York of horticultural material, for the week ending Sept. 15, were recorded as follows:

Bulbs—France, \$63,780; England, \$2,230; Canada, \$98; China, \$4,049; Hongkong, \$460; Japan, \$2,693.

Plants—England, \$117; Bermuda, \$148; British West Indies, \$10; Brazil, \$80; Colombia, \$816.

Red Clover Seed—France, \$4,500.

Clover Seed—France, \$14,274.

Grass Seed—Russia, \$3,267; Scotland, \$511; New Zealand, \$108.

Other Seeds—France, \$12,021; Scotland, \$517; England, \$403; Argentine, \$1,605; Cuba, \$10; British India, \$2,552; Hongkong, \$237; Morocco, \$5,588.

Fertilizers—England, \$167.

San Luis Obispo, Cal.—We had the pleasure of a visit here Sept. 22 from a distinguished Philadelphian, Howard M. Earl, general manager for the W. Atlee Burpee Co., who is on a crop inspection tour at present on the Pacific Coast.

ENGLISH VEGETABLE FARM AND FLOWER SEED

Peas, Beans, Cabbage, Cauliflower, Onion, Etc.

PERENNIAL AND ITALIAN RYE GRASS SEED

DOMESTIC MAMMOTH SUNFLOWER SEED

For Immediate Delivery

COLIN CAMPBELL, Importer

90 Nassau Street, New York City



M. L. REUTENIC

President, Vegetable Growers' Association of America.

R. L. WAITS

Junior Ex-President, Vegetable Growers' Association of America.

The names of officials of the Vegetable Growers' Association, in last week's issue, were unfortunately mixed up with the printing office.

Mitchell's Distinctive Seeds
Catalogue free
518 Market St. — Phila.

Lilium Harrisii Bulbs

	Per 100	Per 1000
5 in. to 7 in.	\$5.00	\$40.00
7 in. to 9 in.	9.00	80.00
9 in. to 11 in.	22.00	

FREESIA REFRACTA ALBA

	Per 100	Per 1000
Mammoth Size	\$1.75	\$12.00

For Immediate Delivery

**PAPER WHITE NARCISSUS
GRANDIFLORUS**

Prices on Application

J. M. THORBURN & CO.

53 Barclay Street
Through to 54 Park Place
NEW YORK CITY

KELWAY & SON.

SPECIALIZE IN

SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or Forward

Only Address, LANGPORT, Eng

**Burpee's Seeds
PHILADELPHIA**

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter flowering Pink Snapdragons on
the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.

PHILADELPHIA, PA.

My new Price List of
WINTER-ORCHID-FLOWERING SWEET
PEA SEED

Has been mailed. If you have not received
a copy, send me postal. Part of new crop
will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

MIGNONETTE

IMPROVED ECLIPSE.

Superior to all others for winter bloom-
ing, exhibition, or cutting. Immense frag-
rant spikes 10 to 15 inches long. Green-
house grown seed from a re-selected strain.
Pkt. 25c., 1/16 oz. \$1.00. Catalogue upon
application.

THOMAS J. GREY CO., Seedsmen
29 So. Market St., Boston, Mass.

**SOW NOW
FARQUHAR'S Giant Cyclamen**

Awarded the Gold Medal of
the Massachusetts Horticul-
tural Society.

Blood-Red**Crimson****Pink****Salmon****White**

Excelsior, white with
claret base.

Each of the above varieties,
100 seeds \$1; 1000 seeds \$10.

R. & J. FARQUHAR & CO., 6 South Market Street
BOSTON

**LEONARD'S SEEDS
and SEED SERVICE**

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.**AMERICAN BULB COMPANY**

172 N. Wabash Ave.
CHICAGO, - ILL.

We are now ready to book orders for French and Dutch
Bulbs, Lilies and other Florists' Necessities.

WRITE US FOR PRICES

POINSETTIAS**August Shipment**

True type, fine 2½ inch plants, shipped in
paper pots, \$6.00 per 100, \$50.00 per 1000.

A. HENDERSON & CO.

211 N. State St.

CHICAGO, ILL.

NEW CROP SEEDS

PANSY SEED. Giant flowering florist mix-
ture. American grown. (Best money can
buy.) 50c. per tr. pkt., ¼ oz. \$1.50, oz. \$5.00.
PANSY SEED SPECIAL. Greenhouse mix-
ture for forcing; long-stemmed. \$1.00 per
tr. pkt., ¼ oz. \$1.50, ¼ oz. \$2.50; oz. \$8.00.
SWEET PEAS. Zvolanek's Orchid Flower-
ing in all varieties. I have his agency
this season.

ROMAN J. IRWIN,
Plants, Cuttings, Bulbs, Seeds.
108 West 28th Street - - New York.

When writing to advertisers kindly
mention HORTICULTURE.

**LILIUM GIGANTEUM
COLD STORAGE**

Extra Selected Stock. Gladiolus for spec-
ing. Nannus, Colvillei or large flower-
ing type. Greenhouse Fertilizers. Ask
for 1916 Seed Catalogue.

Joseph Breck & Sons Corp., Seedsmen
47-54 No. Market St., BOSTON, MASS.

**W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries**

166 W. 23rd St., NEW YORK

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

For KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for New York. Write or Phone to

MAX SCHLING

22 West 59th Street, - Adjoining Plaza Hotel

Best Florists in the States as References.

EUROPEAN ORDERS EXECUTED.
Members of the Florists' Telegraph
Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York

Telephone 1552-1553 Columbus

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

WORCESTER, MASS.

Randall's Flower Shop

HARRY L. RANDALL, Proprietor.

Member Florists' Telegraph Delivery Association

Of Interest to Retail Florists**NEW FLOWER STORES**

Clinton, Ia.—Charles Bloom.

Chicago, Ill.—McComber & McCauley, 818 Grace street.

Indianapolis, Ind.—Oilar Bros., successor to Lester F. Benson.

New Bedford, Mass.—Wm. P. Peirce, removing to 274 Elm street.

Cincinnati, O.—R. G. Kootz Floral Co., Race street and Opera Place.

Chicago, Ill.—Abraham Iralson, 421 West 63rd street, successor to Garfield Flower Shop.

NEWS NOTES.

Manasquan, N. J.—A. G. Freer has purchased the greenhouses of Mrs. Emma Patterson.

New Britain, Ct.—F. H. Bellerer has leased the green houses which have been operated by Mrs. Elizabeth Egert.

Jersey City, N. J.—John Leach has retired from business and his range of greenhouses at 29 Wegman Parkway have been taken over by Philip Dosch.

Cincinnati—Mr. and Mrs. J. A. Peterson are on an automobile trip through the East this week. Tom Windram leaves for a stay at the Lake Shore Ferneries at Leesburg, Fla.

Hamilton, Bermuda, Sept. 24—Bermuda was swept by a severe storm yesterday afternoon, general damage being caused throughout the colony. Many buildings were badly damaged. Trees were uprooted and electric light and telephone communication was interrupted.

Westerly, R. I.—An attachment was placed last Friday on the contents of the flower shop of Lewis P. Rankin by Attorney John J. Dunn for Pasquale and Maria Deplasio. The amount named in the writ is \$500. The store was closed after Deputy Sheriff Fred T. Mitchell had served the papers and he took charge of the premises.

Oakdale, L. I.—Professor Chas. S. Sargent of the Arnold Arboretum, Boston, and Mr. Theodore A. Havemeyer, of New York, visited Westbrook Garden, the home of Mrs. Bayard Cutting, this week to look over the large collection of choice and rare evergreens for which this estate is famous. Many of the specimen conifers here are among the finest in the United States. About twenty large ones have just been transplanted by Superintendent Charles W. Knight.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address: Dards.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUDE BROS CO
4214 F ST NW
WASHINGTON DC

GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

**IN THE
National Capital**

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 306. Long Dist. Bell Phone 2782
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEWPORT, R. I.

145 Bellevue Avenue.

WE GUARANTEE SATISFACTION
MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND
A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1836 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1561 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Speciality
ASK FOR LIST
THOMAS ROLAND, Nahant, Mass.

KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State St.
Albany, N. Y.—The Rosery, 23 Steuben St.
Albany, N. Y.—William C. Gloeckner, 97 State St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th St.
Cleveland, O.—The Smith & Feters Co., 735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.
New London, Conn.—Reuter's.
Newport, R. I.—A. T. Bunyard, 145 Bellevue Ave.
New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—H. F. A. Lange.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

Penn. The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery
124 Tremont St., **BOSTON**

REUTER'S Members Florists
Telegraph Delivery

STORES IN
New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence
ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only
THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue
The Far-Famed Flowers of
TORONTO

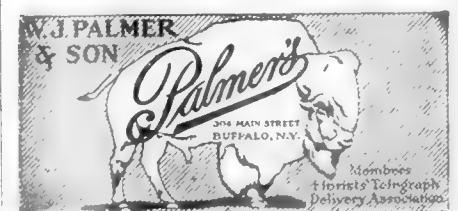
Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - **TORONTO, ONT.**

ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
106 STATE STREET, **ALBANY, N. Y.**



NEWS ITEMS FROM EVERYWHERE

CHICAGO.

Joe Bieher is again to be found at A. Lange's, where business is always good.

R. H. Mohr has transferred his energies to the wholesale end of the work again and is now with the A. T. Pyfer Co.

The frost recorded in the Chicago notes a week ago proved even more severe than was thought at the time. Practically every outdoor flower that is generally sold in the market is cut off and the spaces in the wholesale stores usually filled with asters, dahlias and gladioli are bare, further increasing the forlorn appearance of the wholesale houses.

The fall openings of the large department stores call for a large quantity of artificial flowers. The recent discussion of the effect of the flower sales at these stores set many thinking, and did much good in consequence, but the effect of the regular sales of artificial plants, flowers, etc., has not been given the thought its importance would seem to warrant. A plant is made up, a basket filled or a bouquet made while you wait and very closely has nature been copied. The prices are higher often than for the natural, but they last all winter. And the remarkable feature is that these things were introduced and pushed by florists in the trade.

Some large growers of plants for winter blooming have placed trial orders for azaleas with The Cottage Gardens in California. The initial price is high and the transportation is expected to equal that of the foreign product, but the absence of the duty will cut cost some and the element of uncertainty of delivery will be eliminated. The question of forcing them can only be solved by trial. The growers here state that so far as the foreign azaleas are concerned their delay in transit since the war has caused so much loss there was no money in them, and the doubt as to getting them at all this year, while it is only a little greater than last, is a very trying feature which they would gladly dispense with if home-grown stock is a success.

WASHINGTON, D. C.

At the next meeting of The Florists' Club, Tuesday, October 3, announcements will be made of the various matters that are to be taken up when the season opens. This will include the program of the Club's bowling team.

Two sweet-pea houses are being built in Alexandria, Va., for David J. Grillbortzer, one of which is 35 feet by 60 feet, the other being 35 feet by 125 feet. This is a new proposition with Mr. Grillbortzer and is in line with his plans for branching out. He is a large producer of roses and carnations.

The florists of Washington have been warned to be on the lookout for a smooth stranger whose "sister has

just died." Unfortunately, this warning did not come soon enough to prevent Fred H. Kramer from being "Stung" for \$2. The man visited his store and after ordering a \$3 floral piece to be sent to "Sister" tendered in payment a check for \$5. The gentleman, however, was not known at the bank.

A number of flower shows are being arranged in several of the nearby towns and included among these are the exhibition of the Takoma Park Horticulture Club at Takoma Park, October 2-3, where dahlias and roses will be on display. The sixth annual flower show in Hyattsville will be held October 5-6. The show at Falls Church will be held on October 6-7. The committee has provided ribbons only for awards to successful exhibitors, but there are a large number of cups and other special prizes donated by merchants and seedsmen.

The Leo Niessen Company, is about to open their new store at 1206 H street, Northwest. Here they have the most attractive floral establishment in the city, and fitted out with the most modern equipment. They have gotten away from the old ice box idea and have put in a refrigerator plant. The box is 15 feet by 20 feet and is located in the centre of the store; in the basement below, is a three-ton Baker ice machine and motor for operating it. Additional storage is afforded by a large vault, which is equipped with tables and can be used, especially during the cool weather, for caring for many flowers that do not necessarily have to be put in the box.

NEW YORK.

Johnson & Millang report a good start already in their newly established seed business.

Allan Wickes now has charge of the orchid department of Beechwood Heights Nurseries at Bound Brook, N. J.

Frank Millang has returned home to Forest Hills after a year's sojourn on his farm at Yorktown Heights and is the picture of good health.

F. C. Suchy and Mrs. Suchy of San Antonio, Texas, who have been visiting here left on the steamer for Galveston on Wednesday, Sept. 27.

Frank McMahon of Seabright and Dean & Co. of Little Silver, N. J., whose extensive greenhouses have heretofore been devoted to roses, have changed over for this year to chrysanthemums and carnations.

The Holland-America line freight steamship Amsteldyk arrived on September 25 from Rotterdam, via Kirkwall, with a cargo of 14,000 boxes of bulbs. The ship, according to her officers, was detained seven days at Kirkwall by the British port authorities.

Marriage intentions have been filed by Paul F. Brigham, florist, Westboro, Mass., and Helen I. Adams, Waverley, Mass.

BOSTON.

Miss May Small of H. M. Robinson's bookkeeping staff is taking a belated vacation at Belloys Falls, Vt.

B. A. Snyder and the New England Supply Co. are two new teams that have joined the Florists' Bowling League. Guess we've got everyone now.

September seems to be a great month for weddings if the figures compiled for last Saturday's showing are worth anything. Eight Boston florists had a grand total of 92 nuptial decorations and this rush has a very beneficial result on the market and wholesale business.

The reappointment of Robert S. Peabody, the landscape architect, to the Board of Park Commissioners, is announced by Mayor Curley. Mr. Peabody fills the vacancy left by the resignation of Charles Gibson. The other members of the Board are Chairman John H. Dillon and Thomas F. Galvin.

Many of Boston's most prominent florists are to be called to the witness stand in the Roper trial which is now going on. Young Mr. Comley of Park street was mentioned as one of the chief witnesses by a Boston newspaper, and Henry Cicolo of J. Zinn's is another who claims to be able to throw light on the subject. Cicolo, by the way, is a probable witness in the di Cola murder case, also.

Mr. and Mrs. Edward Baker Wilder celebrated on Saturday evening, Sept. 23, the twenty-fifth anniversary of their marriage, at their home, at 90 Columbia road, on the ancestral estate of Mr. Wilder's father, the late Hon. Marshall P. Wilder. Mr. Wilder is chairman of the fruit committee of the Mass. Horticultural Society and delegate to the State Board of Agriculture.

MICHELL'S FLOWER SHOW

This annual event took place on Tuesday, Wednesday and Thursday of this week at 518 Market St., Philadelphia. Prizes were offered for competition in twenty-seven classes in nearly all of which keen rivalry was shown by the private gardeners of this locality. The display of dahlias was especially fine, the chief prize winners on these being Wm. Robertson, Joseph Fox and R. J. Morrow. Several groups of annual flowers were shown and proved a great attraction. It was a close race between Wm. Robertson and David Aiken for the two prizes offered. The same applies to the groups of fifteen varieties of perennial flowers. There was only a fair showing of H. T. roses, hardy phlox and delphiniums, the season not being just right for these at present. The vegetable display was the best ever—not only for quantity, but the quality was distinctly better than in previous years. Among the star prize winners in this section were John Little, R. J. Morrow, David Aiken, James Coleman, Wm. Robertson, Peter McConville, George W. Quicksell, and John Dwyer. The judges were Paul Huebner, George C. Watson and Thos. W. Logan.

BASKETS**BASKETS****BASKETS****BUY YOUR FALL SUPPLIES NOW****New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Hampers and Flower Bowls**

Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.Manufacturers and
Importers**1129 Arch Street, PHILADELPHIA, PA.**Write for
Catalogue**LANCASTER COUNTY FLORISTS' ASSOCIATION**

Under the leadership of Albert M. Herr a trip was made to the establishment of Richard Vincent, Jr., of White Marsh, Md., via automobile. There were thirteen machines and sixty-three people in them.

The distance, 66 miles, was made in a little over three hours and at Perry Hall we were met by Mr. Vincent and one of the boys who piloted us to their establishment via the shortest and best route, and there we found a lunch that satisfied to the full the appetite created by our long run on a cool morning.

Mrs. Vincent was voted a charming hostess by all the ladies present and Mr. Vincent given a vote of thanks, three cheers and a tiger by every one.

Mr. Vincent then led the party to the Dahlia fields and we were shown not only the largest acreage (close to a hundred) we ever saw but also the largest collection I presume in the world. A seedling of their own—Chas. L. Seybold—has in addition to its merits as a bloom the added feature of being the earliest and the freest of their 300 or more varieties. Another special is called Jack's Discovery. One of the cultural pointers brought out by Mr. Vincent specially was that late planting was in most cases better than early planting. They do their planting by machine and three men and one machine can plant 25,000 per day. Cannas come next to Dahlias in quantity and variety and the canna lovers of the party had quite a feast in examining the many varieties grown.

In the greenhouses the geranium stock was a great attraction and the 300 or more varieties were closely inspected by critical men. In addition a general line of bedding stock interested the retail men and the healthy condition of everything was commented upon. We found two new 100-horse-power boilers being installed and a complete pumping plant that in addition to pumping water manufactures the electricity for the place. Their box making for shipping out stock is a little industry of its own. Pompon chrysanthemums promise

Coming Exhibitions

Oct. 7-8, Boston.—October Fruit and Vegetable Exhibition, Massachusetts Horticultural Society, Horticultural Hall.

Oct. 10-12, New Orleans, La.—Eighteenth Annual Convention American Association of Park Superintendents.

Oct. 26-27, Madison, N. J.—Twentieth Annual Flower Show, Morris County Gardeners' and Florists' Society, James Assembly Hall.

Oct. 27-29, Mount Kisco, N. Y.—Fall show of the Northern Westchester County Hort. and Agri. Soc.

Oct. 31-Nov. 1, Greenwich, Conn.—Fall Flower, Fruit and Vegetable Show of the Westchester and Fairfield Horticultural Society.

Nov. 1-5, Boston.—Grand Autumn Exhibition of Plants, Flowers, Fruits and Vegetables, Massachusetts Horticultural Society, Horticultural Hall.

Nov. 1 to 3, Tarrytown, N. Y.—Chrysanthemum show of the Tarrytown Hort. Soc. in Music Hall.

Nov. 8, Philadelphia. Chrysanthemum Society of America in conjunction with Pennsylvania Horticultural Society.

Nov. 8-10, New York.—Annual Chrysanthemum show of the American Institute, Engineering Society Bldg., 25-33 W. 39th St., New York.

Nov. 9-10, Bloomington, Ill.—Fall Flower Festival, Illinois State Florists' Association.

Nov. 9-11, Lancaster, Pa.—Fall flower show.

Nov. 9-12, New York.—Fall exhibit Horticultural Society of New York at Museum of Natural History.

Nov. 11-19, New Orleans, La.—Flower show.

Nov. 14-15, Providence, R. I.—Flower show of R. I. Hort. Soc.

a big crop of flowers and plants, Mr. Vincent kindly offered to supply us with a display of these flowers for our show Nov. 9th, 10th and 11th., and if there was anything left undone toward our entertainment and comfort the writer failed to see or hear of it.

The run home was made with a stop at Quarryville for supper and Lancaster reached about 7 P. M. by a tired but well pleased party, without even a bursted tire to mar the pleasure of the trip. **ALBERT M. HERR.**

CHRYSANTHEMUM SOCIETY OF AMERICA EXAMINING COMMITTEES.

President Wm. Kleinheinz announces the committees to examine new chrysanthemums for the ensuing year as follows:

Boston—Wm. Nicholson (chairman), James Wheeler, Alex Montgomery. Ship flowers to chairman, care of W. J. Thurston, manager Boston Flower Exchange, 1 Winthrop square and Otis street, Boston, Mass.

New York—Eugene Dailedouze (chairman), Wm. H. Duckham, A. Herrington. Ship flowers to New York Cut Flower Co., 65 Twenty-second street, New York, care of chairman.

Philadelphia—A. B. Cartledge (chairman), John Westcott, S. S. Pennock. Ship flowers to A. B. Cartledge, 1514 Chestnut street, Philadelphia, Pa.

Cincinnati—R. Witterstaetter (chairman), James Allen, Henry Schwarz. Ship flowers to chairman, Jabez Elliott Flower Market, care of janitor.

Chicago—N. J. Wieter (chairman), George Asmus, Thomas W. Head. Ship flowers to chairman, 162 North Wabash Ave., Chicago.

Shipments should be made to arrive by 2 P. M. on examination days to receive attention from the committee. Must be prepaid to destination and an entry fee of \$2.00 should be forwarded to the secretary not later than Tuesday of the week they are to be examined, or it may accompany the blooms.

Seedlings and sports are both eligible to be shown before these committees, provided the raiser has given them two years' trial to determine their true character. Special attention is called to the rule that sports to receive a certificate must pass at least three of the five committees.

The committees will be in session to examine such exhibits as may be submitted on each Saturday during October and November, the dates of which will be October 7, 14, 21, 28 and November 4, 11, 18, 25.

CHARLES W. JOHNSON, Secy.
2134 West 110th St., Chicago, Ill.

FOUR ITEMS

We will be strong on for this week

DAHLIAS
CATTLEYAS VALLEY
BEAUTIES

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S
 Wholesale & Commission Florists
FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

EDWARD REID
WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers**REED & KELLER**

122 West 25th St., New York

Florists' Supplies

We manufacture all our
 Metal Designs, Baskets, Wire Work & Novelties
 and are dealers in
 Decorative Glassware, Growers and
 Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.**E. G. HILL CO.**

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER
EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty
 264 RANDOLPH ST., DETROIT, MICH.

Telephone 2860 Madison Square

WOODROW & MARKETOS
 WHOLESALE

Plantmen and Florists

37 and 39 West 28th St., NEW YORK

**POEHLMANN BROS. CO.**

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut
 Flower Market

Daily consignments from
leading growersFull line of Florists'
SuppliesWrite for quotations before
ordering elsewhere

226 DEVONSHIRE ST.,
Telephone, Main 6267-6268

BOSTON, MASS.**WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY**

	BOSTON September 28		ST. LOUIS September 19		PHILA. September 25	
Roses						
Am. Beauty, Special.....	20.00	to 30.00	15.00	to 25.00	25.00	to 30.00
" Fancy and Extra.....	15.00	to 20.00	8.00	to 10.00	15.00	to 20.00
" No. 1 and culls.....	3.00	to 8.00	1.00	to 5.00	5.00	to 12.00
Russell, Hadley.....	2.00	to 12.00	5.00	to 10.00	4.00	to 15.00
Killarney, Hillingdon, Ward, Extra.....	4.00	to 8.00	5.00	to 8.00	4.00	to 8.00
Ordinary.....	1.00	to 2.00	3.00	to 4.00	2.00	to 4.00
Arenburg, Radiance, Taft, Key, Extra.....	1.00	to 8.00	.....	to	4.00	to 8.00
Ordinary.....	1.00	to 2.00	.....	to	2.00	to 4.00
Ophelia, Mock, Sunburst, Euler, Extra.....	3.00	to 10.00	5.00	to 8.00	4.00	to 8.00
Ordinary.....	1.00	to 2.00	2.00	to 3.00	2.00	to 4.00
Carnations.....	.....	to 2.00	2.00	to 3.00	1.50	to 3.00
Cattleyas	40.00	to 50.00	30.00	to 40.00	50.00	to 75.00
Dendrobium formosum.....	.....	to 30.00	.....	to .....	.....	to
Lilies	8.00	to 12.00	10.00	to 12.50	10.00	to 12.00
Lily of the Valley	4.00	to 6.00	4.00	to 5.00	3.00	to 6.00
Snappedragon	1.50	to 1.00	3.00	to 4.00	.....	to
Gladioli	1.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Asters	1.50	to 1.00	.....	to	1.00	to 3.00
Dahlias	1.00	to 2.00	1.00	to 2.00	1.00	to 3.00
Gardenias	20.00	to 25.00	.....	to .....	.....	to
Adiantum.....	.....	to 1.00	1.00	to 1.25	.....	to 1.00
Smilax	12.00	to 20.00	12.00	to 15.00	.....	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.).....	2.00	to 35.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co.
 Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
 CARNATIONS
 A Specialty

WHOLESALE
 GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

BOSTON A decided change in the market condition has been noted since last week, and where the demand has hitherto been sluggish and weak it is now sharp and insistent. Only a deplorable scarcity of stock prevents the trade from enjoying a period of "fatness." Roses are but sparse in the wholesale houses and double the quantity could be used. Carnations, short lengths, are not over-plentiful either, and are of indifferent quality. The chrysanthemum is gaining strength both in demand and quantity, but as yet it hasn't flooded the market. The gentle aster is making its farewell bow, and will rapidly disappear. A few lilies are to be seen. Some short American Beauties are in evidence and are selling well, and like everything else are not nearly numerous enough to satisfy the call for them.

A killing frost has made **CHICAGO** a clean sweep of the usual September flowers and placed the market in a tighter position than ever before in its history. The full extent of the damage done to outdoor flowers was not realized until the shippers were heard from, when it was found that the country surrounding Chicago had all been included in the frost zone. Fortunately roses are beginning to come on more rapidly and there is a fair supply of most varieties. Killarneys still remain scarce. American Beauties cannot be said to be plentiful, but there is not the scarcity which existed a short time ago, and the quality is good. More chrysanthemums are coming each day, but no good supply is here yet, though quite possibly the empty counters, usually filled with fall stock, make the number appear less. Lily of the valley seems equal to the demand. Orchids are very scarce and prices high. Carnations are improving slowly and it will be some time before stock will be really good. Smilax and other greens are not very abundant and bring a good price.

The end of the aster **CINCINNATI** and gladiolus season and the cool weather have caused a material shortening of receipts and at times much more stock than is available could be used. Roses were checked very considerably by the cool weather. Carnations are in slightly larger supply than they were at the last writing. Lilies are abundant. Dahlias are not coming in as strongly as they could be used. In fact the dahlia cut this year is far below the normal.

Trade is by no means **NEW YORK** brisk in the wholesale district but with the exception of a lot of asters of low degree and disreputable baled and barreled dahlias there is no accumulation of stock of any kind. Roses are still quite small in bud and stem but they are clean and of excellent substance and improve noticeably from day to day. Carnations are seen here and there but it appears that they are not growing well and the crop is far from



The Queen Mary

Iridescent Corsage Shield

The season is now fast approaching when corsage bouquets will be all the rage, and every live florist should be prepared in advance with a good supply of our wonderful corsage protector. Light, graceful, inexpensive. Appeals to every lady of refined taste. Waterproof colors: violet, white, pink, orchid, Nile green.

Per doz. \$2.25, per gross \$24.00

SILK VELOUR

For Window and Store Drapery

Our collection consists of more than 100 colors and shades, width 50 inches. Among the popular colors are orange yellow, soft blue, dark rose, brown, ruby and more than a dozen shades of dark and light greens. Send for samples and prices.

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	CINCINNATI September 11	CHICAGO September 15	BUFFALO September 19	PITTSBURG September 19
Roses				
Am. Beauty, Special.....	20.00 to 25.00	25.00 to 30.00	20.00 to 25.00	..... to 25.00
" " Fancy and Extra.....	15.00 to 20.00	15.00 to 20.00	12.00 to 15.00	15.00 to 20.00
" " No. 1 and culls.....	4.00 to 10.00	5.00 to 10.00	4.00 to 10.00	2.00 to 8.00
Russell, Hadley.....	6.00 to 10.00	4.00 to 20.00	..... to 8.00	2.00 to 8.00
Killarney, Hillingdon, Ward, Extra.....	4.00 to 6.00	6.00 to 10.00	6.00 to 8.00	6.00 to 8.00
" " Ord.....	3.00 to 4.00	3.00 to 5.00	3.00 to 4.00	..... to 4.00
Arenburg, Radiance, Taft, Key, Ex. Ord.....	4.00 to 6.00	..... to 8.00	3.00 to 4.00	..... to 4.00
Ophelia, Mock, Sunburst, Euler, Ex. Ord.....	3.00 to 4.00	..... to 8.00	3.00 to 4.00	2.00 to 10.00
Carnations				
Cattleyas.....	50.00 to 60.00	50.00 to 75.00	50.00 to 60.00	..... to 50.00
Dendrobium formosum.....	..... to 10.00	..... to 10.00	..... to 10.00	..... to 10.00
Lilies	8.00 to 10.00	8.00 to 12.00	8.00 to 12.00	8.00 to 10.00
Lily of the Valley.....	5.00 to 6.00	4.00 to 5.00	4.00 to 6.00	..... to 1.00
Snopdragon.....	..... to 5.00	..... to 5.00	2.00 to 4.00	2.00 to 4.00
Gladioli.....	3.00 to 5.00	..... to 5.00	2.00 to 4.00	2.00 to 4.00
Asters.....	2.00 to 4.00	..... to 5.00	1.00 to 3.00	.50 to 2.00
Dahlias.....	3.00 to 4.00	..... to 5.00	1.00 to 3.00	..... to 5.00
Gardenias.....	..... to 1.00	..... to 1.25	.90 to 1.00	1.00 to 1.25
Adiantum.....	..... to 1.00	1.00 to 1.25	.90 to 1.00	1.00 to 1.25
Smilax.....	15.00 to 20.00	15.00 to 20.00	..... to 15.00	..... to 15.00
Asparagus Plu. & Spren. (too Bhs.)	25.00 to 35.00	25.00 to 50.00	..... to 35.00	30.00 to 40.00

promising at present. In one respect it may be better that this is the case as the chrysanthemums are likely to come in nearly all at the same time this season and there seem to be more of them grown than of late, so the crop will be heavy. Lilies are showing up good, the quality being greatly improved. Cattleyas are not plentiful yet there are more of them than a week ago. Gladioli still linger and good spikes of America and light colors generally sell quite well.

PHILADELPHIA

Stocks shortened up a little during the past week, while business continued good in most lines. This has had the natural effect of stiffening prices considerably. Compared with this time last year figures quoted on the leading staples are a good deal higher and growers generally are congratulating themselves. Dahlias are coming in more freely and are also of better quality. October Frost has made its appearance in the chrysanthemum line-up and relieves the loneliness of Golden Glow a little. Asters and gladioli are still to be seen but they do not dominate to any extent. Russell

is the leader in roses at present. Some really elegant stock of this variety is coming in. Carnations are gradually improving and pretty soon they will be occupying their usual commanding position. Cosmos is at its best—the large-flowering long stemmed strain which comes along about this season of the year and exhibits such good color, size and substance. Cattleyas are a little more plentiful and in greater variety. Lilies are in better supply and selling well. Gardenias have just started. There are lots of wild flowers like the perennial aster around and they fill in nicely for all decorations. Greens market is sluggish.

WASHINGTON

The condition of the local market remains about the same as a week ago. Asters and lily of the valley are the only flowers of which there is a shortage. Roses show a marked improvement and meet with a general sale, but prices continue low. It is still too early to talk carnations, although some are being sent in daily. Cosmos has made its appearance and occasionally a few chrysanthemums are offered.

H. E. FROMENT
Wholesale Commission Florist
Choice Cut Flowers
New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 755
Farragut New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Telephone 5325, Farragut.
Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENTS SOLICITED
PHONE {608} MADISON SQ., NEW YORK
609

JOHN YOUNG & CO.
WHOLESALE FLORISTS
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.
Laurel, Hemlock, all Decorative Evergreens.
Tel. {1593} Mad. Sq. 119 W. 28 St., New York
5033

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD
121 West 28th St., NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone 2870 Farragut.

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.
Wholesale Commission
READY FOR BUSINESS
49 WEST 28th ST. NEW YORK.

P. J. SMITH
WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
TELEPHONE {2281} FARRAGUT 131 West 28th St., NEW YORK CITY
3089
ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US
Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES, CARNATIONS
JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 769

Centrally Located, The Hub of the Flower Market Section
CHARLES MILLANG
Wholesale Florist
55 and 57 W. 26th Street, - - NEW YORK
Telephone 2483 Farragut

BADGLEY & BISHOP, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones {1684} Madison Square
1685
CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS			Last Half of Week ending Sept. 23 1916		First Half of Week beginning Sept. 25 1916	
American Beauty, Special	15.00	to	25.00	20.00	to	30.00
" " Fancy and Extra	10.00	to	15.00	8.00	to	15.00
" " No. 1 and full	2.00	to	8.00	2.00	to	8.00
Russell, Hadley	2.00	to	10.00	2.00	to	10.00
Killarney, Hillingdon, Ward, Extra	3.00	to	10.00	3.00	to	10.00
" Ordinary	.50	to	2.00	.75	to	2.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to	10.00	4.00	to	10.00
" Ordinary	.50	to	2.00	.75	to	2.00
Ophelia, Mock, Sunburst, Euler, Extra	4.00	to	10.00	4.00	to	10.00
" Ordinary	.50	to	2.00	.75	to	2.00
Carnations	1.00	to	1.50	1.00	to	1.50

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS
We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for doing
our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.
GUTTMAN & RAYNOR, Inc.
101 West 28th Street, NEW YORK
Phones 2036, 2037, 558 Farragut

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
436 6th Avenue, Between 26th and 27th Sts., New York
Telephones: 797-798-799 Farragut
Consignments Solicited

WALTER R. SIEBRECHT CO.
Incorporated
Wholesale Commission Florists
Orchids, Gardenias and Many Unusual
Flowers of Quality.
114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS
55-57 West 26th Street
Telephones, 13-5510 Madison Square
MAURICE L. GLASS, Treasurer
Consignments Solicited

Visitors' Register

Cincinnati—Morris Grossberg representing A. L. Vaughan & Co., Chicago; Wm. Rodgers and W. G. Matthews, Dayton, Ohio; Frank Ball, Indianapolis, Ind.; C. L. Kincaid, Vevay, Ind.

Washington, D. C.—Arthur Niessen Phila., Pa.; Charles P. Dudley, Madison, N. J.; L. J. Seiger, Robert Craig Co., Phila., Pa.; Joseph W. Heacock, Wyncote, Pa.; George Cohen, Cohen & Hiller, New York, N. Y.

Chicago—C. Niemann, New York; R. R. Davis, Morristown, Ill.; A. L. Glaser, Dubuque, Iowa; Vernon Griffin, Hannibal, Mo.; W. J. Smart, New York; Miss Semler, Milwaukee, Wis.; Mrs. I. Baumgarten and H. Baumgarten, Milwaukee, Wis.

New York—Edwin C. Mayer, Cornell University, Ithaca, N. Y.; Robert Kift, Philadelphia; David Fraser, Pittsburgh, Pa.; R. Vincent, Jr., Whitmarsh, Md.; Geo. W. Kerr, Doylestown, Pa.; Geo. L. Stillman, Westerly, R. I.; W. W. Castle, Boston.

Philadelphia—F. Henry of Henry & Lee, N. N. City; C. O. M. Nims, A. H. Hews & Co., Cambridge, Mass.; Antoine Leuthy, Roslindale, Mass.; C. H. Breitmeyer, Detroit, Mich.; Z. D. Blackstone, Washington, D. C.; W. F. Gude, Washington; George W. Hess, Washington.

Obituary

David Phillips.

David Phillips, a florist of Quebec, Canada, died on Saturday, Sept. 23, at the home of his sister, Mrs. De Poe, in East Orange, N. J., in his fifty-third year.

George H. Sullivan.

George H. Sullivan of Revere, Mass., died on Friday, Sept. 22, at the Frost Hospital, Chelsea, following an operation. He was a native of Cambridge and was engaged in the florist business. He is survived by his wife.

George W. Seavey.

George W. Seavey, the eminent flower artist, well known to many in the trade for his beautiful paintings of roses and other flowers, passed away at his home in Boston on Thursday, Sept. 21. Mr. Seavey had been in failing health for several years, but the immediate cause of his death was the result of injuries sustained in a trolley accident, pneumonia setting in.

A. H. Murdock.

On Friday, Sept. 22, Albert H. Murdock, aged 66 years, died suddenly at his home in Shrewsbury, Mass., of heart disease. He had been in poor health for some time. He came to Shrewsbury five years ago from Boylston, where he was born, and has been engaged in market gardening and flower raising with his son, David Murdock, Shrewsbury. Beside his son, he leaves his wife and a brother, Dr. E. A. Murdock, Spencer.

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2608

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Sept. 23 1916		First Half of Week beginning Sept. 25 1916	
Cattleyas	40.00	to 50.00	40.00	to 50.00
Dendrobium formosum	20.00	to 50.00	20.00	to 50.00
Lilies	6.00	to 10.00	6.00	to 10.00
Lily of the Valley	3.00	to 5.00	3.00	to 5.00
Snapdragon	.50	to 1.00	.50	to 1.00
Gладиолус	.50	to 2.00	.50	to 4.00
Asters	.50	to 1.50	.50	to 1.50
Dahlias	.50	to 2.00	.50	to 4.00
Gardenias	10.00	to 25.00	10.00	to 25.00
Adiantum	.25	to .50	.25	to .50
Smilax	8.00	to 15.00	8.00	to 15.00
Asparagus Plumosus, & Spreng (100 bunches)	10.00	to 25.00	10.00	to 25.00

VIOLET GROWERS

Before making your shipping arrangements for the coming season please correspond with me.

I HANDLE VIOLETS ONLY

and give my entire time and attention to the interests of my violet growers.

CLARENCE SLINN

Write Now

123 W. 28th Street, NEW YORK

Beechwood Heights Nurseries

THOMAS YOUNG, JR., Proprietor.

Bound Brook, N. J., U. S. A.

Importers and Growers of

ORCHIDS

CUT FLOWERS OF ALL THE LEADING VARIETIES.

ORCHIDS IN THEIR SEASON.

ALSO GARDENIAS

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square
BOSTON, MASS.

Telephone 2618-2617-2616, Main.

HYDRANGEA OTASKA.

The beautiful plant which is the subject of our cover illustration this week was grown by Mrs. Frederick L. Moody of Skowhegan. It bears 136 heads of flowers, some of them nearly one foot across. Our readers will agree that such a plant is well worthy of the prominence we have accorded to it. Its owner stands beside it in the photograph.

CATALOGUE RECEIVED.

Flory & Black, Slough, Bucks, Eng., Catalogue of Orchids. This firm purchased the entire stock of seedling, hybrid and other orchids lately cultivated by James Veitch & Sons, Ltd., which although but a part, is in itself suggestive of the extent and character of the collection listed in this exceptional catalogue. It is primarily a Hybrid collection, including a large number of unflowered pedigree seedlings.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co. (INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK
Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of
Good Stock Solicited

PERCY W. RICHTER, Mgr., NEW YORK
111 W. 28th Street

HERMAN WEISS

Wholesale Florist

Experienced, Progressive and can handle shipments of growers' product satisfactorily.

106 West 28th St., NEW YORK
Tel. Farragut 3066.

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street
167 & 3058 Farragut NEW YORK

Established 1888 Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists

110 West 28th St., New York
We Solicit Consignments of New England Grown Novelties.

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel. Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ARACARIAS

Henry A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

A. L. Miller, Jamaica, N. Y.
Asparagus Plumosus.
For page see List of Advertisers.
Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-
LINGDALE GREENHOUSES, Collingdale, Pa.

AUCTION SALES

The MacNiff Horticultural Co.,
New York City.
For page see List of Advertisers.
Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.
Johnson & Millang, Inc., New York City.
Plants, Bulbs, Etc., at Auction.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.
August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price-
list.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.
A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.
R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

BEGONIAS

Mrs. J. A. Peterson (New), 2½ in. pots,
\$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.
King Construction Co., North Tonawanda,
N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.
Lord & Burnham Co., New York City.
For page see List of Advertisers.
Hitchings & Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.
Folding cut flower boxes, the best made.
Write for list. HOLTON & HUNKEL CO.,
Milwaukee, Wis.

BOX TREES

August Rolker & Sons, New York City.
For page see List of Advertisers.

BOX TREES—Standards, Pyramids and
Bush. Price list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

BULBS AND TUBERS

Hogewoning & Sons, New York City, and
Rynsburg, Holland.
Extra Selected Dutch-Grown Bulbs for
Fall Planting.

J. M. Thorburn & Co., New York City.
Hyacinth, Narcissus and Freesia Refracta
Alba Bulbs.
For page see List of Advertisers.

American Bulb Co., Chicago, Ill.

French and Dutch Bulbs.

For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
Lily Bulbs.

For page see List of Advertisers.

August Rolker & Sons, New York City.
Rainbow and Purity Freesias.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

The MacNiff Horticultural Co.,
Holland Grown Bulbs.
New York City.

For page see List of Advertisers.

Henry F. Mitchell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.
For page see List of Advertisers.

Fottler, Flske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

Anglin & Walsh Co., Williamsbridge, N. Y.
Freesia Purity Bulbs.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

Mr. B. Progressive, Florist,
Everywhere, U. S. A.

Dear Sir: It will be a decided advantage
as regards prices and quality to place your
order with us.

Soliciting your order through this ad
cuts down the overhead selling expenses
and you positively get lower prices and
better quality. Our terms are liberal and
are a guarantee that you get a square
deal, all bulbs guaranteed true to name or
money refunded.

Write us and upon request we will mail
you our booklet giving prices f. o. b. New
York or Chicago, and we also cheerfully
furnish you with any information that
may be desired. Those of our friends who
will mail us a list of their requirements
will find it has paid them to do so.

Awaiting to hear from you at your pleas-
ure, we remain,
Yours very truly,
Westerbeek & Klyn,
Sassenheim, Holland

Write to WESTERBEEK & KLYNN, 14
STONE ST., NEW YORK, N. Y.

BULBS AND TUBERS—Continued

BULBS FOR SALE.
Freesia Purity, \$8.00 thousand. Hyacinths, named varieties. Single Early Tulips. Double Early Tulips. Single Late Tulips. Darwin Tulips, named varieties. Low Prices. Stock on hand. Prompt delivery. Single Tulips, mixed, \$4.50 thousand. Mixed Double Tulips. Single Late Tulips. Darwins, \$5.00 thousand. Double Nosed Von Sion; Golden Spur; Bil-color Empress; Orange Phoenix; Poeticus Ornatus and Emperor Narcissus. All above varieties on hand. THOMAS COGGER, Melrose, Mass. Phone, Melrose 761-W.

CARNATIONS

Cottage Gardens Co., Inc., Queens, N. Y.
New Carnation Cottage Maid.
For page see List of Advertisers.

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. J. Goddard, Framingham Centre, Mass.
Crimson Carnation Doris.
For page see List of Advertisers.

CARNATION STAPLES

Split carnations quickly, easily and
cheaply mended. Pillsbury's Carnation
Staple, 1000 for 35c.; 3000 for \$1.00 post-
paid. I. L. PILLSBURY, Galesburg, Ill.

CHRISTMAS PEPPERS

A. L. Miller, Jamaica, N. Y.
For page see List of Advertisers.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
Pompon Chrysanthemums.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Gattman & Raynor, Inc., New York City.
Emma, a Garza Anemone, Double
Pompon, pale pink.

CINERARIAS

2½-inch pots

Half dwarf, selected strains, best colors:
\$3.50 per 100, \$30.00 per 1000; 3-inch, \$5.00
per 100, \$40.00 per 1000.

Write today for our Plant Bulletin and
Bulb List, containing everything you need.

S. S. PENNOCK-MEEHAN CO.,
1608-1620 Ludlow St., Philadelphia, Pa.

DAHLIAS

ORDERS BOOKED ANYTIME

For Fall or Spring delivery. Wholesale and
Retail. Send for Catalogue. NORTHBORO
DAHLIA & GLADIOLUS GARDENS, J. L.
Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wannamaker, Newest, Handsomest,
Best. New color, new form and new habit
of growth. Big stock of best cut-flower
varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

For List of Advertisers See Page 435

DECORATIVE PLANTS—Continued

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

FERNS

A. M. Davenport, Watertown, Mass.
Ferns in Flats.
For page see List of Advertisers.

R. Vincent, Jr., & Sons Co., White Marsh,
Maryland.
Boston Ferns.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FLORISTS' PLANT STOCK

Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums: S. A. Nutt, 2 1/4 in.; also
rooted cuttings. First class stock. Write
for prices. FRANK LEITH & SON,
Haverhill, Mass.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

Glass 6x8, 8x10, 10x12, 10x14, \$1.65
per box. Other sizes at factory prices.
C. N. ROBINSON & BRO., Dept. 29,
Baltimore, Md.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, cas-
tles, globes, aquarium, fish goods, nets,
etc., wholesale. FRANKLIN BARRETT,
Breeder, 4815 D St., Olney, Philadelphia,
Pa. Large breeding pairs for sale. Send
for price list.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

**GREENHOUSE BUILDING MATERIAL—
Continued**

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset,
Boston.
Pecky Cypress.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

John C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

Hitchings & Co., New York City.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Assn. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS
Michigan Cut Flower Exchange, Detroit,
Mich.

For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

Palisades Nurseries, Inc., Sparkill, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co.,
Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

HOSE

H. A. Dreer, Philadelphia, Pa.

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

INSECTICIDES

Hammond's Paint & Slug Shot Works,
Beacon, N. Y.
Hammond's Thrip Juice No. 2.
For page see List of Advertisers.

Aphine Manufacturing Co., Madison, N. J.
Aphine.
For page see List of Advertisers.

INSECTICIDES—Continued

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

B. G. Pratt Co., New York City.
Whys and Wherefores of Fall Spraying.
For page see List of Advertisers.

IRIS

John Lewis Childs, Flowerfield, N. Y.
Japan Iris.
For page see List of Advertisers.

Pallida Dalmatica, the largest and best
German Iris. Beautiful Lavender. Extra
fine divisions, \$10.00 per 100; smaller size,
\$8.00. Cash, please. BROOKLAND GAR-
DENS, Woburn, Mass.

LILY BULBS

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

McHutchinson & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Lilium Harrisii Bulbs.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hohmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.
Hatboro, Pa.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

R. & J. Farquhar & Co., Boston, Mass.
Trees.
For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

ORCHID FLOWERS

Jus. McManus, New York, N. Y.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

ORCHID PLANTS

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.

PALMS

SINGLE PLANTS

Belmoreana, 4	-inch.....	\$40.00 per 100
" 5	-inch.....	75c. to \$1.00 each
" 6	-inch.....	\$1.25 to \$1.50 each
Forsteriana, 2½	-inch.....	\$20.00 per 100
" 4	-inch.....	\$40.00 to \$45.00 per 100
" 5	-inch.....	\$1.00 to \$1.25 each
" 6	-inch.....	\$1.25 to \$2.00 each
" 7	-inch.....	\$1.50 to \$2.50 each

Made up plants. Prices on application.

PHOENIX ROEBELENI

4-inch	.....	\$6.00 per 100
6-inch	.....	\$1.25 to \$1.50 each
6-inch	.....	\$2.00 to \$2.50 each
7-inch	.....	\$2.50 to \$3.50 each

Write today for our Plant Bulletin and Bulb List, containing everything you need.

S. S. PENNOCK-MEEHAN CO.,

1608-1620 Ludlow St., Philadelphia, Pa.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

THE WORLD'S BEST PEONIES—Fifteen fine named Peonies for \$2.50, or 25 for \$5.00, all different and truly labeled, a chance to obtain a fine collection at half price, comprising such varieties as Festiva maxima, Delachel, Achillea, Lady L. Bramwell, Couronne d'Or, Prolifica, Tricolor, Louis Van Houtte, and various other fine sorts. With any order of above for \$5.00 I will include one plant of Baroness Schroeder free. I have the largest stock in America of Lady Alexandra Duff (absolutely true) and many other fine varieties. Send for catalogue. W. L. GUMM, Peony Specialist, Remington, Ind.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHLOX

150,000 field grown Phlox in 12 leading varieties; all colors; true to name. \$3.50 per 100. \$30.00 per 1000. THE NILES NURSERY CO., Niles, Mich.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

For page see List of Advertisers.

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

POINSETTIAS.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

RHODODENDRONS

John Waterer, Sons & Crisp, Ltd., Bagshot, England
F. Gomer Waterer, Hotel Manhattan, New York City.
Hardy Rhododendrons.

RHODODENDRONS—Continued

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Hardy Roses, American Grown.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

ROSE STAKES

The Carnation Support Co.,
Connersville, Ind.
For page see List of Advertisers.

SASH

Standard Hot Bed Sash with cross bar, 80c. each; lots of 25 and over, 75c. each. Satisfaction guaranteed or money refunded. Glass 6 x 8, 8 x 10, 10 x 12 or 10 x 14. \$1.65 per box of 50 sq. ft. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Gigantic Cyclamen.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
Giant Cyclamen Seed.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Seeds, Selected Strains.
For page see List of Advertisers.

SEEDS—Continued

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Mignonette, Improved Eclipse.
For page see List of Advertisers.

Roman J. Irwin, New York City.
New Crop Florists' Seeds.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Seeds for the Florist.
For page see List of Advertisers.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGOM & HURRELL, Summit, N. J.

SWEET PEA SEED

Arthur T. Boddington Co., New York City.
Winter Flowering Spencer Sweet Peas.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet Peas.
For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE WORKS, 264 Randolph St., Detroit, Mich

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cnt Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

For List of Advertisers See Page 435

WHOLESALE FLORISTS
Boston—Continued

H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
For page see List of Advertisers.

Bound Brook, N. J.

Beechwood Heights Nurseries.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 568-570 Washing-
ton St.
For page see List of Advertisers.

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 264-266
Randolph St.
For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
For page see List of Advertisers.

Hents & Nash, 55 and 57 W. 28th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Traendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

Woodrow & Markatos, 37 and 39 W. 28th St.
For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 53 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Guttman & Reynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunther Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

W. E. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

George W. Crawbuck Co., 57 West 28th St.
For page see List of Advertisers.

WHOLESALE FLORISTS
Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 21 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.

New Offers In This Issue**DRACAENA CANES—NURSERY STOCK.**

Colin Campbell, New York City.
For page see List of Advertisers.

ENGLISH VEGETABLE, FARM AND FLOWER SEED.

Colin Campbell, New York City.
For page see List of Advertisers.

FRENCH, JAPAN, HOLLAND AND COLD STORAGE BULBS.

Ralph M. Ward & Co., New York City.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION.
Metropolitan Material Co., Brooklyn, N. Y.

For page see List of Advertisers.

GREENHOUSES AS WE BUILD THEM.

Lord & Burnham, New York City.
For page see List of Advertisers.

NEW HYBRID ASTILBES FOR FORCING.

Mt. Desert Nurseries, Bar Harbor, Me.
For page see List of Advertisers.

NURSERY STOCK.

Princeton Nurseries, Princeton, N. J.
For page see List of Advertisers.

SPECIAL PIPE HOOKS AND SPOOLS FOR CONCRETE BEDS OR BENCHES.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

VIOLETS.

Clarence Slinn, 123 West 28th St., New York
City.
For page see List of Advertisers.

THE NUT-GROWER

The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

WANTS, FOR SALE, Etc.**HELP WANTED**

WANTED. An all around florist for a commercial place. Sober and reliable. References required. GEO. E. FELCH, A. C. M. S.

WANTED. A young man with experience in landscape work, draughting, etc., as assistant in our landscape department. BERTRAND H. FARR, Wyomissing Nurseries Co., Wyomissing, Pa.

SITUATIONS WANTED

Gardener, caretaker or second man, married, no family. Practical knowledge in routine; greenhouse, vegetables, flowers and fruits. Sober, active, industrious and trustworthy. "X. Y. Z.," HORTICULTURE Office.

Gardener with first-class references, 30 years old, married, no children. Experience in and outdoors on well-known private places. Address "R. S.," care HORTICULTURE, Boston.

YOUNG MAN, manager of range of greenhouses, 28, of German descent, desires position on private estate, East. Ten years' experience, married. Can furnish best references. Salary must be in accordance with good conscientious efforts and best results. Address "L. W.," care HORTICULTURE.

FOR SALE**FOR RENT OR FOR SALE**

Seven greenhouses all stocked with roses and running about twenty-five thousand feet of glass. Formerly operated by Rankin in Westerly, R. I. Apply either to

WASHINGTON TRUST CO.

Westerly, R. I.

Or S. S. PENNOCK, Philadelphia, Pa.

TREES, SHRUBS, VINES and HERBACEOUS PERENNIALS

By JOHN KIRKEGAARD

Formerly Assistant to Director of the Royal Botanical Gardens, Copenhagen, Denmark. Latterly Twenty Years in American Forestry and Botanical Work.

Assisted by DR. H. T. FERNALD, Professor of Entomology Massachusetts Agricultural College and Entomologist, Massachusetts Agricultural Experiment Station.

and PROF. E. A. WHITE,

Professor of Floriculture, New York State College of Agriculture at Cornell University.

A Great Book A Beautiful Book

A Comprehensive Book

A Practical Book By Practical Men

There Is No Other Book Like It

410 Pages. Planting Plans. Tabular Description and Classification of Species. 69 Full-Page Illustrations in Tint. Authoritative Articles on Many Subjects.

New Edition

BEAUTIFULLY BOUND IN CLOTH

Price only \$2.50 net. Mailing

Price, \$2.71. Money-Back

Guarantee

Order it from HORTICULTURE

147 Summer St., Boston

In writing to Advertisers kindly mention Horticulture

HORTICULTURAL SOCIETY OF NEW YORK.

The Dahlia Show of the Horticultural Society of New York, held at the Bronx Botanical Garden last week was good as to quality of material, but was not extensive nor was it well attended, the exhibition scheduled by the American Dahlia Society for this week evidently dominating the situation. Leading exhibitors were C. Louis Alling of West Haven, Conn. and Mills & Co. of Mamaroneck, N. Y. In the private gardener section, Mr. Sullivan, superintendent of Mrs. Nichols estate held the lead. There were some nice seedlings shown by Dr. Millspaugh of Paterson, N. J. William Waite of Seabright, N. J., showed some fine blooms.

CLUB AND SOCIETY NOTES.

As a closing feature of the Houghton Horticultural Society's 42d annual autumn exhibition and flower festival at Lynn, Mass., the members of the society and friends gathered about the festal board in Odd Fellows' Hall, Thursday evening, Sept. 21, and enjoyed a good supper and listened to short talks from several of the members.

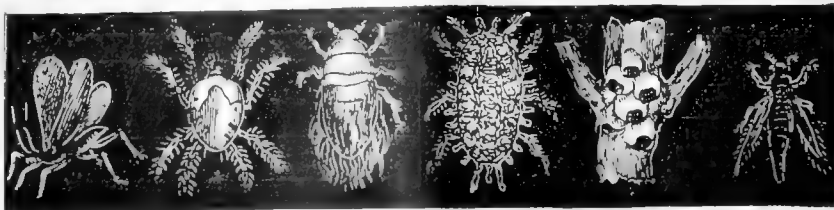
At a recent meeting of the executive committee of the Illinois State Florists' Association it was decided to abandon the prize feature at the Fall Show, which is to be held at Bloomington, Ill., November 9-10. So the secretary was instructed to write to all members asking their hearty cooperation, to help make this, the first Fall Show, one grand success, by contributing stock for exhibition. This will also be the semi-annual meeting of the association.

The New Bedford Horticultural Society opened its annual dahlia show on Thursday afternoon, September 21, with a richer and larger assortment of fine blooms than it has ever exhibited before. The committee in charge of the event found difficulty in finding table room for all. Among the leading displays were those of David F. Roy, of Marion, and John P. Rooney, of New Bedford. The majority of the dahlia prizes were won by W. B. Hathaway and Jos. A. Nolet. The amateurs were especially in evidence with some fine new blooms. They also brought in other flowers of many kinds and several ventured to exhibit favorite fruits. The judges were James Garthley and C. W. Young. They went bravely to their tasks of allotting

Hammond's Thrip Juice No. 2

REGISTERED

A Contact Insecticide, Useful and Reliable, Used for 30 Years in Greenhouses, and on Plants, Grape Vines, Trees and Shrubs



Some common Sucking Insects, magnified.

HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago

Whys and Wherefores of Fall Spraying

is the title of a little booklet, giving seven reasons, official and non-official, why it is the best time to spray. This booklet will be sent out by the B. G. Pratt Co., 50 Church St., New York, manufacturers of the well-known "SCALECIDE" at a very early date. If you are not on their mailing list, send them a postal today giving the number of your trees and your dealer's name and you will receive a copy free. Address Dept. 12

prizes. Never before, perhaps, did they meet a more difficult assortment of puzzles.

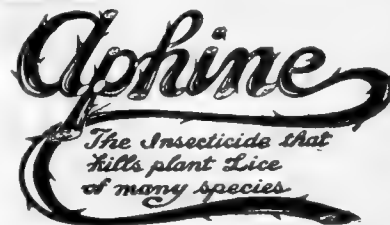
PUBLICATION RECEIVED.

Proceedings of the Thirty-Fourth Seed Trade Association, held at Chicago, Ill., June 20-22, 1916. In addition to the official report of the proceedings discussions, addresses, reports, etc., at the various sessions, a list of the members of the Association and a list of those present at the Convention is given, making a handsome volume of 126 pages on heavy paper.

NEW CORPORATIONS.

New York, N. Y.—Transfer Florist, Inc., capital stock, \$5,100. Incorporators, T. Volland, G. Madamles and J. Soteriades.

Rowayton, Ct.—Traendly & Schenck, growers, capital stock, \$10,000. Incorporators, Frank H. Traendly, Charles Schenck and Charlotte L. A. Traendly, all of New York.



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.
Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 1% nicotine solution properly diluted for fumigating or vaporizing.
Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SCALECIDE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

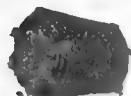
Ask your dealer or write
EASTERN CHEMICAL CO., BOSTON

When writing to advertisers kindly mention HORTICULTURE.



NIKOTEEN
For Spraying
APHIS PUNK
For Fumigating

Ask Your Dealer For It.
NICOTINE MFG. CO.
ST. LOUIS



NON-KINK WOVEN HOSE

In any length (one piece) with couplings, 14c. per foot. Unequalled at the price. Remnants, shorter than 50 feet, 10c. per foot, with couplings.

HOSE VALVE—70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.



Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**CYPRESS GREENHOUSE STOCK****PECKY CYPRESS BENCH STOCK****HOT BED SASH***Ask for Circular D and Prices***THE A. T. STEARNS LUMBER COMPANY****NEPONSET, BOSTON****DREER'S "Riverton Special" Plant Tubs**

No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.60	\$17.50	\$145.00
20	18 in.	1.45	15.50	130.00
30	16 in.	1.10	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.**DURING RECESS.**

Lenox Horticultural Society.

The annual field day of the Lenox (Mass.) Horticultural Society was held on September 21 at Bellefontaine,

the hospitality which marks all of the doings of this organization. The man who was at the head of all the sports and ran the events like a professional was Louis Barnett, secretary of the



Group at the Farquhar Picnic.

the estate of Mr. and Mrs. Giraud Foster. About 250 persons attended. The members made it a picnic, brought luncheons and served all comers with

society. He was starter, scorer; finish judge, tape holder and participant in the soccer football game. Alexander MacConnachie, the first president of the society and one of the youngest-old members, took part in the jumping contest, although he failed to qualify. The members brought their families to the field day, and the boys and girls had sports for themselves, rifle shooting and races. The events were open and there were no handicaps. The prizes were articles for personal use, jewelry and boxes of cigars.

STANDARD FLOWER**POTS**

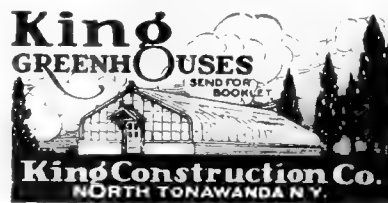
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts., Washington, D. C.



No house too large or too small for ADVANCE equipments. We meet any conditions and give you service as well as high class materials in sash operating device and greenhouse fitting

For Free Catalog
Send Address To**ADVANCE CO.,**
Richmond, Ind.When writing to advertisers kindly mention **HORTICULTURE**.**GREENHOUSES BUILDING OR CON-
TEMPLATED.**Fairbury, Ill.—Alex. Miln, addition.
Fremont, O.—A. S. Horn, additions.
Des Moines, Ia.—H. J. Watson, additions.

Wickliffe, O.—John Klink, range of houses.

Louisville, Ky.—Henry Pittelas, rebuilding.

Springfield, Ill.—Hembricker & Cole, additions.

Murphysboro, Ill.—Claude Wisely, additions.

Portland, Ore.—G. J. Burkhardt, 112 North 23d St.

Louisville, Ky.—Nanz & Neuner Co., range of houses.

Salt Lake City, U.—State Capital, house 30 x 60.

Indianapolis, Ind.—Wm. A. Glaubke, house 25 x 100.

Providence, R. I.—Westminster Greenhouses, rebuilding.

Hartford, Ct.—Whiting Greenhouses, additions and alterations.

Hickman Mills, Mo.—Wright & Ragan, two houses each, 27 x 200.

Washington, D. C.—Dept. of Agriculture, Lord & Burnham house, 60 x 150.

Peekskill, N. Y.—Chas. E. Robinson, Main St., Lord & Burnham house, 25 x 150.

**Evans 20th Century Arm**

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1,116 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame

GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, CHICAGO, ILL.

SHARP, PARTRIDGE & CO.

Are Leaders in

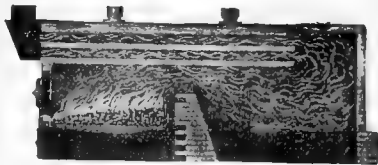
GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

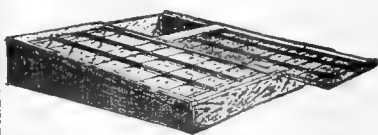
CHICAGO, ILL.

KROESCHELL BOILER

SEND FOR CATALOGUE



KROESCHELL BROS. CO.
406 W. Erie St. Chicago, Ill.



HOTBED SASH at 75c. each
Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.
Double Light Sash up to \$4.00.

We carry a large stock of all sizes.
Write us for estimate.

S. JACOBS & SONS

1359-1385 Flushing Avenue BROOKLYN, N. Y.

PATENTS

Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



EVERYTHING FOR THE GREENHOUSE

John C. Moninger Company

CHICAGO NEW YORK
922 Blackhawk St. 812 Marbridge Bldg.
CINCINNATI, 2314 Union Central Bldg.

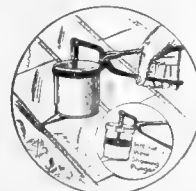
MASTICA



For Greenhouse
Glazing
USE IT NOW

F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

Seal-tight liquid putty at \$1.25 per gallon.
METROPOLITAN MATERIAL CO.
1392-1414 Metropolitan Ave., Brooklyn, N. Y.

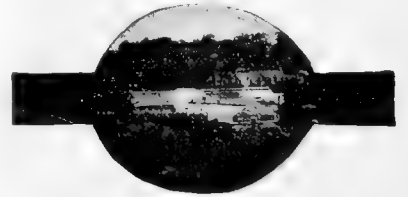
THE FLORISTS' HALL ASSOCIATION

Is a mutual organization, insuring greenhouse glass against hail. Both commercial and private establishments are accepted. For particulars, address

John G. Bator, Sec., Saddle River, N. J.
Insurance Now.

"METROPOLITAN"

The Sign of Superiority



The success of your greenhouse depends largely upon the results previously shown by the builder you employ.

Therefore, every grower should investigate the capabilities of the greenhouse builder he selects for the job.

The above full iron frame, patented curved eave Metropolitan greenhouse was erected by us for Mr. W. W. Fuller, at Briar Cliff Manor, N. Y. This house is 26 x 100 feet, with an absolutely water proof cement boiler cellar. It is divided into three compartments which are separately heated and ventilated, and, being glazed with 24 x 24 inch glass, is extremely light. We also did the masonry.

PUT YOUR GREENHOUSE PROBLEMS UP TO US

We go anywhere in the U. S.
to submit plans and prices.

METROPOLITAN MATERIAL CO.

Patented Greenhouses

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

GLASS

**GREENHOUSE MATERIAL
HOT-BED SASHES**

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

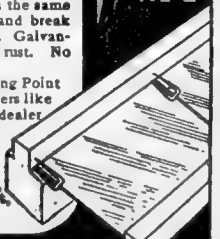
Dreer's Peerless Glazing Points For Greenhouses

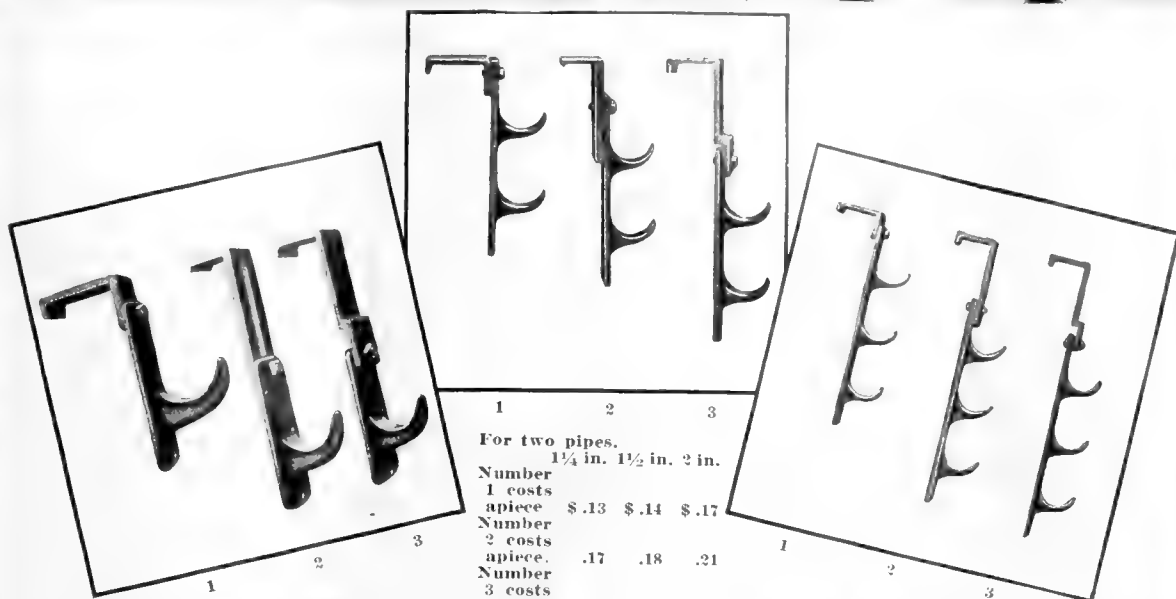
FULL
SIZE
No 2

Drive easy and true, because both levels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.
Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.





For one pipe. One and three are not adjustable. Number 2 is.

	1 1/4 in.	1 1/2 in.	2 in.
Number one costs apiece	\$.10	\$.11	\$.11
Number two costs apiece	.13	.14	.14
Number three costs apiece	.13	.14	.14

	1 1/4 in.	1 1/2 in.	2 in.
Number one costs apiece	\$.16	\$.18	\$.22
Number two costs apiece	.20	.21	.25
Number three costs apiece	.18	.19	.23

Special Pipe Hooks and Spools for Concrete Beds or Benches.

HERE is a set of hooks and spools that fully answers every need that we have so far run up against, in installing heating where there are concrete beds and benches.

They hook right over the edge, and are made in two fixed lengths, and also one that is adjustable to any length, for use between the two fixed ones. This makes grading the pipes a very simple sure matter.

It satisfactorily solves one of the most perplexing of the

concrete bed or bench problems in connection with your heating.

Every one of the castings are made of high grade iron and of ample thickness to give the necessary strength; but not so heavy as to run up their cost needlessly.

If at all in doubt just what ones, and how many hooks or spool hookovers you need, tell us full particulars, and we will gladly and promptly help you out.

None of these shown here are in our Handy Hand Book, so tear this page out and keep it.

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

SALES OFFICES:

NEW YORK
42nd Street Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Widener Bldg.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

CLEVELAND
Sweetland Bldg.

TORONTO, CANADA, Royal Bank Bldg.

MONTREAL, Transportation Bldg.

FACTORIES: Irvington, N. Y.

Des Plaines, Ill. St. Catharines, Canada

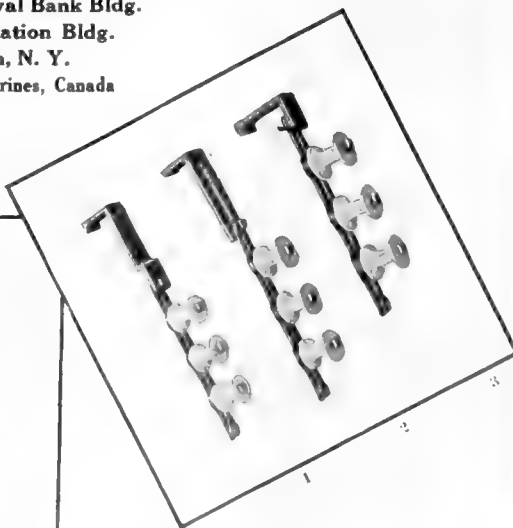


Spools for two pipes. One and three are not adjustable. Number two is.

	1 1/4 in.	1 1/2 in.	2 in.
Number one costs apiece	\$.20	\$.23	\$.24
Number two costs apiece	.21	.26	.28
Number three costs apiece	.22	.25	.26

Single spool adjustable.

	1 1/4 in.	1 1/2 in.	2 in.
Price complete apiece	\$.14	\$.16	\$.18



Three pipe spools.

	1 1/4 in.	1 1/2 in.	2 in.
Number one costs apiece	\$.28	\$.31	\$.32
Number two costs apiece	.32	.34	.36
Number three costs apiece	.30	.32	.34



Greenhouses As We Build Them

THERE is quite as much importance to be put on the preliminaries of greenhouse building, as the building itself. Sometimes there is more.

For example, take the instance of the house above. How admirably it fits the grounds. It didn't just happen to fit so attractively into its location. Our expert first studied the location carefully from every point of view. Then he took into consideration the various things the owner wanted to grow. The question of possible future additions was also considered, and how it could be done without marring the balanced effect. The economies of working and heating were gone into thoroughly. Then, and not till then, were the plan and design laid out and submitted to the final jurors, our construction experts, who

considered it only from its purely practical side. The designing department then added its touches here and there to lend charm and interest.

Now it was ready to submit to the owner for approval. Before him, we laid the plan and full elevations, with details of the entrance design, so that he could easily picture in his mind how the entire layout would look when finished. When such contracts are placed, we generally take care of everything, leaving nothing for the owner to worry over or upset other operations. For sixty years, we have been doing this sort of thing. We believe we have an exceptional greenhouse building service to offer you. Surely no one can build any better greenhouse. See our Booklet Number 117.

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

SALES OFFICES:

NEW YORK
42nd Street Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Widener Bldg.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

CLEVELAND
Swetland Bldg.

TORONTO, CANADA, Royal Bank Bldg.

MONTREAL, Transportation Bldg.

FACTORIES: Irvington, N. Y.

Des Plaines, Ill.

St. Catharines, Canada

Vol. XXIV
No. 15
OCT. 7
1916

HORTICULTURE



Astilbe Davidi

Photo. R. Rethe

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription, \$1.00

DREER'S ARAUCARIAS



ARAUCARIA (NORFOLK ISLAND PINE)

We have a good supply of Araucarias. You gain the benefit not only of the fall's growth by laying in your supplies now but to many points shipments by freight can now be made with safety at a saving of transportation charges.

Araucaria Excelsa

	Each
5-inch pots, 8 to 10 inches high, 2 to 3 tiers.....	\$0.40
5-inch pots, 10 inches high, 3 tiers.....	.50
6-inch pots, 10 to 12 inches high, 3 to 4 tiers.....	.60
6-inch pots, 12 to 15 inches high, 3 to 4 tiers.....	.75
6-inch pots, 16 to 18 inches high, 4 tiers.....	1.00
7-inch pots, 18 to 20 inches high, 4 to 5 tiers.....	1.25

Araucaria Excelsa Glauca

	Each
5-inch pots, 8 to 10 inches high, 3 tiers.....	\$0.75
6-inch pots, 10 to 12 inches high, 3 to 4 tiers.....	1.00

Araucaria Robusta Compacta

	Each
6-inch pots, 12 inches high, 2 to 3 tiers.....	\$1.00
6-inch pots, 14 to 16 inches high, 3 tiers.....	1.50
7-inch pots, 18 to 20 inches high, 3 to 4 tiers.....	2.00

The above prices are intended for the trade only

HENRY A. DREER

714-716 Chestnut St., PHILADELPHIA, PA.

COTTAGE MAID

A Sport of Mrs. C. W. Ward

Get your order in NOW for December and January delivery

\$12 per 100; \$100 per 1000

COTTAGE GARDENS CO., Inc.
QUEENS, NEW YORK

CINERARIA HYBRIDA GRANDIFLORA, 3 in. ready for 4 in. \$5.00 per 100

CINERARIA STELLATA, Strong 3 in. ready for 4 in. Mixed Colors, \$5.00 per 100

SMALL FERNS FOR DISHES

Plenty of Holly and Aspidium 2 1/4 in., \$4.00 per 100; \$35.00 per 1000. Adiantum rhodophyllum and cuneatum, 3 1/2 in., very strong plants, \$8.00 per 100.

A. M. DAVENPORT, Watertown, Mass.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ELMER D. SMITH & CO.
CHRYSANTHEMUMS

Ask for Catalogue
ADRIAN, - - - MICH.

CHARLES H. TOTTY

CHRYSANTHEMUMS
MADISON, N. J.

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.
WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.
ROOSEVELTS—\$5 per 100, \$40 per 1000.
BOSTONS—\$4 per 100, \$35 per 1000.
250 at 1000 rates.

H.H. BARROWS & SON, Whitman, Mass.

CARNATIONS

Field Grown

ENCHANTRESS SUPREME, EUREKA
WHITE WONDER, PINK DELIGHT.
\$7.00 per 100; \$40.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL,
MATCHLESS,
\$7.00 per 100; \$35.00 per 1000.

LADY NORTHCLIFF, PINK WINSOR,
WHITE WINSOR.
\$4.00 per 100; \$30.00 per 1000.

WOOD BROS., FISHER, N. Y.

JAPAN IRIS SEEDLINGS

*From Home Grown and Imported
Seed insuring a splendid
range of colors*

50c. per doz.; \$3.00 per 100;
\$25.00 per 1000

Send for New Catalogue

JOHN LEWIS CHILDS, INC.,
FLOWERFIELD L. I., N.Y.

A. N. Pierson, Inc.
CROMWELL, CONN.
Bedding Plants and Roses

GERANIUMS

Alphonse Ricard, Beaut Poltevine, S. A. Nutt, Gen'l Grant, Mad. Buchner, Mad. Recamier, Jean Vlaud, Jean Oberle, Abble Schaefer, Mad. Landry, La Favorite and other good kinds, in 3-in. stock, at \$3.00 per 100, \$25.00 per 1000; 2-in. at \$2.00 per 100, \$18.50 per 1000. We have a large stock for immediate shipment and are booking orders.

BOSTON FERNS, 4-inch, \$15.00 per 100; 7-inch, \$6.00 per doz.; 8-inch, \$1.00 each, \$9.00 per doz. Large plants, in 11 and 12-inch pots, from \$2.50 to \$5.00 each.

	2-in.	2-in.	3-in.	3-in.		2-in.	2-in.	3-in.	3-in.
	100	1000	100	1000		100	1000	100	1000
ACALYPHA	\$2.00	\$18.50	\$3.00	\$25.00	LEMON VERBENAS	\$2.00	\$18.50	\$3.00	\$25.00
ALTERNANTHERA	2.00	18.50	3.00	25.00	LANTANAS, 10 varieties	2.00	18.50	3.00	25.00
AGERATUM	2.00	18.50	3.00	25.00	MOONVINES, White and Blue	2.00	18.50	3.00	25.00
ASPARAGUS SPRENGERI, Extra strong			5.00		PARLOR IVY, S. Scandens	2.00	18.50	3.00	25.00
BEGONIAS, Vernon	2.00	18.50			PETUNIAS, Double and Single Mixed	2.00	18.50	3.00	25.00
COLEUS, 10 varieties	2.00	18.50	3.00	25.00	POMPON CHRYSANTHEMUMS	2.00	18.50	3.00	25.00
CUPHEA, Platycentra	2.00	18.50	3.00	25.00	SALVIA, Bonfire and Zurich	2.00	18.50	3.00	25.00
HARDY ENGLISH IVY	2.00	18.50	3.00	25.00	SWAINSONA, White	2.00	18.50	3.00	25.00

CELERY, White Plume, \$1.00 per 1000; 10,000 and over, 85c. per 1000. Golden Self Blanching, \$2.50 per 1000.

CASH WITH ORDER.

R. VINCENT, Jr., & SONS CO.,

WHITE MARSH, MD.

LILY OF THE VALLEY PIPS

Danish and German Stock

Booking Orders now for 1916 Crop

LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

CHAS. SCHWAKE & CO., Inc.

Valley

GERMAN, SWEDISH
AND DUTCH PIPS

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....495	Childs, John.....466	Galvin, Thos. F.....479	Kerr, the Florist.....479	Ouwkerk, P.....473	Siggers & Sig-.....494
Albany Cut.....486	Lewis.....466	Gasser Co., J. M.....479	Kervan Co.....486	Palisades Nur-.....473	gers.....494
Flower Ex.....486	Clarke's D., Sons.....478	Graham, Adam &.....479	King Construc-.....495	Palmer, W. J. &.....479	Skidelsky, S. S. & Co.....477
Allen, J. K.....487	Clucas, R. W.....473	Son.....479	tion Co.....495	Son.....479	Slinn, Clarence.....487
Allen, Wm. Stu-.....487	Coan, J. J.....487	Grey, Thos. J. Co.....477	Knoble Bros.....479	Park Floral Co.....478	Smith, Elmer D. & Co.....466
art.....487	Cottage Gardens Co.....466	Gude Bros. Co.....478	Kramer, F. H.....479	Parshelsky Bros.....495	Smith, P. J.....496
American Bulb Co.....477	Cooke, Geo. H.....478	Gunther Bros.....487	Kroeschell Bros.....494	Penn the Florist.....478	Smith & Fetters.....479
Anderson, S. A.....479	Cowee, W. J.....484	Guttman & Rey-.....486	Kuebler, W. H.....486	Pennock-Meehan Co.....485	Smith, W. & T. Nursery Co.....473
Anglin & Walsh.....473	Craig, Robt. Co.....473	nor.....486	Lager & Hurrell.....468	Pierce Co., F. O.....495	Smyth, Wm. J.....479
Aphine Mfg. Co.....493	Crawbuck, Geo.....487	Hall Association.....495	Lange, H. F. A.....479	Pierson, A. N.....466	Stumpp, G. E. M.....478
Badgley & Bishop, Inc.....486	Dards.....478	Hammond Paint & Slug Shot Works.....493	Leonard Seed Co.....477	Pierson, F. R.....468	Thorburn, J. M. & Co.....477
Barrows & Son.....466	Davenport, A. M.....466	Hart, Geo. B.....486	Loechner & Co.....467	Poehlmann Bros. Co.....484	Totty, Chas. H.....466
Bayersdorfer, H. & Co.....483	Dreer, H. A.....466-494-495	Henderson, A. & Co.....477	McHutchison & Co.....468	Randall's Flower Shop.....479	Traendly & Schenck.....486
Bay State Nurseries.....468	Dorner, F. & Sons Co.....466	Hentz & Nash.....486	McManus, Jas.....486	Reed & Keller.....484	United Cut Flower Co.....487
Beechwood Hghts. Nurseries.....487	Dunlop, John H.....479	Hess & Swoboda.....479	McConnell, Alex.....478	Riedel & Meyer.....486	Valentine, J. A.....478
Bobbink & Atkins.....473	Dysart, R.....478	Hews, A. H. & Co.....494	MacNiff Horticul- tural Co.....473	Reid, Edw.....484	Vincent, R. Jr., & Sons Co.....467
Boddington, A. T.....475	Eastern Chemical Co.....493	Hill, E. G. Co.....484	Marshall, W. E. Co.....477	Reuters.....479	Wants, For Sale.....491
Bolgiano & Son.....477	Edwards Folding Box Co.....484	Hill, D. Nursery Co.....473	Metropolitan Ma- terial Co.....494	Robinson, H. M. & Co.....487	Ward, R. M. & Co.....473
Breck, J. & Sons.....477	Elliott Auction Co.....468	Hitcheings & Co.....496	Michell, H. F. Co.....476	Robinson, H. M. Co.....486	Weber, F. C.....479
Breitmeyer's, J. Sons.....478	Ernest, W. H.....494	Hogewoning & Sons.....475	Michigan Cut Flower Ex.....484	Roehrs, J. Co.....468	Weiss, Herman.....487
Budlong, J. A.....484	Esler, J. G.....495	Holland Nurser- ies.....473	Millang, Chas.....486	Roland, Thomas.....479	Welch's.....484
Bunyard, A. T.....478	Evans, J. A. Co.....495	Holm & Olson.....479	Miller, A. L.....468	Roller, A. & Sons.....468	Welch Bros. Co.....484
Burnett Bros.....477	Eyres.....479	Irwin, R. J.....477	Moninger, J. C. Co.....495	Rooney, John P.....473	Welch, Patrick.....487
Burpee, W. A. & Co.....477	Parquhar, R. & J. & Co.....477	Johnson & Mil- lang.....474	Mt. Desert Nurseries.....468	Rosery, The.....478	Wood Bros.....466
Campbell, Colin.....468	Florists' Tele- graph Delivery Asso.....480-481	Jacobson, S. & Sons.....494-495	Murray, Samuel.....478	Schling, Max.....478	Woodrow & Mar- ketos.....484
Carnation Support Co.....473	Foley Mfg. Co.....495	Kasting, W. F. Co.....484	National Nur- seryman.....473	Schwake, Chas. Co.....467	Young, John & Co.....486
Carter, Tested Seeds, Inc.....476	Ford, W. P.....486	Keller, J. B. Sons.....478	Nicotine Mfg. Co.....493	Sharp, Partridge & Co.....495	Young, Thomas.....487
Cedar Hill Nurseries.....468	Ford, M. C.....486	Kelway & Son.....477	Niessen, Leo.....484	Sheridan, W. F.....486	Young & Nugent.....478
	Froment, H. E.....486		Nut Grower.....491	Siebrecht, Geo. C.....486	Zvolanek, Ant. C.....477
				Siebrecht, W. R.....486	

**FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 488, 489, 490, 491**

IN THE LINE OF PROGRESS

We Are Headquarters for All the New Hybrid Astilbes for Forcing

Very large spikes, magnificent foliage, named varieties in all shades from pure white to pink and rosy violet. Strong clumps for immediate shipment

Don't waste your valuable space on the old superseded sorts.

These new ones are indispensable

MOUNT DESERT NURSERIES, BAR HARBOR,
MAINE.

DRACAENA CANES

All the best commercial varieties, including

LINDENI	MASSANGEANA	TERMINALIS
FRAGRANS	IMPERIALIS	SANDERIANA
AMABILIS	LORD WOLSELEY	Etc., Etc.

Write for Import Prices. Fall Shipment

McHUTCHISON & CO., THE IMPORT HOUSE 95 Chambers St., New York

Hardy Roses

New York State Two-year Field-grown, can still furnish for this fall, delivery after harvesting, in low budded: Polyantha JESSIE, Climbing EXCELSA, Tea-hybrid TEPLITZ, and Own-rooted HERMOSA, WHITE DOROTHY, TEPLITZ, all at \$12.50 the 100. Own-rooted EXCELSA at \$10 the 100 f.o.b., New York so long as unsold.

Do not delay ordering

AUGUST RÖLKER & SONS, 51 BARCLAY STREET, New York
or P. O. BOX 752

DRACAENA CANES

**FELIX
&
DYKHUIS**
Boskoop, Holland

Florist Stock for Forcing. Rhododendrons, Hydrangeas, Roses, Lilacs, etc.
Nursery Stock. Aucubas, Buxus Bushes and Pyramids, Laurels, etc.

COLIN CAMPBELL, Importer, 90 Nassau Street, New York City

TWO MAGNIFICENT NEW SHRUBS

PHILADELPHUS VIRGINAL—The finest shrub in existence, large double flowers two inches in diameter, pure white, deliciously scented. Strong Plants \$2.00.

DEUTZIA CRENATA MAGNIFICA—A beautiful plant, pure white double flowers. A great improvement on the type. Strong Plants \$2.00.

A Fine New Clematis from Western China

CLEMATIS "FARGESII"—White flowers two inches in diameter. A strong climbing vine that flowers at the end of June. Plants \$1.00.

CEDAR HILL NURSERY,

GLEN HEAD
L. I., NEW YORK

OLDEST AUCTION HOUSE

IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co.
42 Vesey St., New York

FIELD GROWN IVY

\$7 per 100, \$65 per 1000

Large Flowering Paris Daisies
4 in. ready for 6-6 1-2 in. \$10 per 100

GENISTAS

4 1-2 in. pots, very bushy, \$20 per 100

All the above is first class stock and grown especially for the critical trade.

A. L. MILLER

JAMAICA, N. Y.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, N. Y.

When writing to advertisers kindly mention HORTICULTURE.

ORCHIDS

We grow and sell nothing but ORCHIDS. If you are in the market for this class of plants we respectfully solicit your inquiries and orders. Special lists on application.

LAGER & HURRELL, Summit, N. J.

ORCHIDS

CONSERVATORY PLANTS
BEGONIAS

Lorraine, Cincinnati and Mrs. Peterson
JULIUS ROEHRS CO.
Rutherford, N. J.

TREES

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties. Sturdy choice stock that can be depended upon. Send for catalog and special trade prices.

The Bay State Nurseries
North Abington
Mass.

SHRUBS

This New England land and climate produces fine hardy shrubs. Special trade prices. By the thousands, Hardy Nerve and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—

Acacias

There are many species of acacias, but only a few that merit a place in the florists' plant collection. For the trade the dwarf species are found to be the most satisfactory in every way. Among the best are *Acacia armata*, *A. cordata*, *A. lineata*, *A. grandis*, *A. paradoxa*, *A. heterophylla*, and a few others. Plants that were trimmed back last spring and have been plunged out of doors all summer should have now finished up a fine growth which will not fail to give a profusion of wonderful bloom by next Easter. They thrive in a winter temperature of 40 to 45 degrees, and if Easter is late they should be kept just a little above the freezing point, as with the increasing heat and light of the spring it is sometimes hard to keep them back. These plants do not like heat, and consequently are not adapted for forcing. They should be wintered in a cool house, and as near as possible to 40 degrees and allowed to come along naturally. Do not let them suffer for the want of water at any time, and give them a good syringing once or twice a week.

Cypripediums

Keep the plants free from the yellow thrips by sponging occasionally with a weak solution of nicotine or tobacco water. It is a good plan to give the house a light fumigating once or twice fortnightly to keep down this pest. It is essential to give regular ventilation as moisture in excess is liable to be very injurious. A weekly application of weak liquid manure will be of great assistance in the perfecting of the plants and bloom. Give a liberal supply of water, allowing the compost to become dry occasionally. From now on, a temperature of 55 to 60 will suit them well. For the average florist there is no more valuable orchids than *Cypripedium insigne*, which can be had in bloom just after the chrysanthemum season is over. It makes a fine flower for the holiday season lasting, as it will, for over a month in good condition. They will not need any shade after this date. Shade only tends to make them weak.

Lomarias

These can be grown under proper treatment into miniature tree ferns, which can be used for general house decoration. In their young state they make good center pieces for the table. When the plants get large and pot-bound they can be root pruned and the soil reduced, and put back into the same size pots. They will soon make a new set of roots and a new crown if given a gentle bottom heat. They can be readily raised from spores. Sow in shallow pans or boxes and keep in a temperature of 70 to 75 degrees in a close atmosphere, well shaded from the sun, using fine peat soil or leaf mold with a

good portion of silver sand. Transfer into fresh soil when large enough to handle. Keep in a temperature of 60 to 65 at night. *Lomaria gibba* and *intermedia* are the best. When they have produced two or three upright fronds they can be put into thumb pots in a soil of one-half loam and one-half peat or leaf mold with some sharp sand. Pot as needed so as to keep them moving.

Marguerites

All marguerites, whether white or yellow, single or double, flower well in spring and early summer, and a good many of them can be sold for bedding out and the filling of window boxes and vases. All will make good sized plants by the end of May. A batch can be started by propagation now if not already started. If you are going to prepare for Easter at all, a good stock of marguerites should be gotten into shape, for that is the great day for the sale of them. Bring the plants along so they will not have to stand the high pressure of extreme forcing. If at all shapely they should be allowed to grow along from now on in a carnation house temperature.

Preparing Land for Next Year

Where the ground area is very limited there is nothing better than trenching, with a heavy coat of manure intermixed with the surface soil. For those that have only a comparatively small parcel of land and cannot afford to let it lie idle for this time there is nothing better than sub-soiling, the sub-soiling plow following after an ordinary plow loosening the lower layer of soil and fairly well intermixing the two. Some florists' establishments have quite a lot of land under cultivation so can reclaim their wornout land by running it in grass crops for a few years when it will again be fit as tillable land. Every florist who has land in which to grow his stock should always make it an aim to restore to the soil some of the organic and mineral substances which have been taken away by previous crops. The first thing that suggests itself is manuring. Now is a good time to plow or dig in a liberal dressing of coarse barnyard manure.

Reminders

You will have to use greater judgment now with syringing overhead. Always try to have the plants dry by nightfall.

Lay Rambler roses on their sides where the wood is well matured. A daily syringing overhead will be enough to keep the wood plump.

Nerines will now be pushing their flowering spikes. Repot any urgently requiring it, but not otherwise as these pretty bulbs do better when the pots are well filled with roots.

HORTICULTURE

VOL. XXIV

OCTOBER 7, 1916

NO. 15

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

147 Summer Street, Boston, Mass.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

ADVERTISING RATES:

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions as follows:
 One month (4 times), 5 per cent.; three months (12 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Astilbe Davidi.	
NOTES ON CULTURE OF FLORISTS' STOCK— Acacias—Cypripediums—Lomarias—Marguerites— Preparing Land for Next Year—Reminders—John J. M. Farrell	469
ASTILBES AND HERBACEOUS SPIREAS—Richard Rothe—Illustrated	471
CLUBS AND SOCIETIES—Vegetable Growers' Asso- ciation, portait—Meetings Next Week—Lancaster County Florists' Association—Cleveland Florists' Club	472
American Association of Nurserymen—Florists' Club of Philadelphia—Coming Exhibitions—Ameri- can Rose Society—New Jersey Floricultural Society —American Association of Park Superintendents... ..	474
Pot Makers' Credit Association.....	494
SEED TRADE—Crop Report from Holland—One Week's Imports—Notes	476
OF INTEREST TO RETAIL FLORISTS: New Flower Stores	478
Flowers by Telegraph	479
NEWS ITEMS FROM EVERYWHERE: Chicago, Washington, Boston	482
Philadelphia, Cleveland	483
OBITUARY—Reinhardt Cook—Henry Kirke White— Edward Mawley—Charles M. Griffing	483
FLOWER MARKET REPORTS: Boston, Buffalo, Chicago, New York, Philadelphia..	485
Washington	487
MISCELLANEOUS: "Tear Down" Week—Personal	475
Belgian Azaleas Coming	475
Floriculture at Ohio State College.....	476
News Notes	478-487
Settlement of Claims for Damaged Mail.....	483
Trials of Dahlias in Minnesota.....	492
Peony Flowered Dahlia, Mrs. Frederick Grinnell —Illustrated	492
Landscape Architecture Exhibit.....	492
Massachusetts Agricultural College Notes.....	492
A Friend of the Dahlia	492
Assistant Gardeners' Essay Contest.....	493
Publications Received—Catalogues Received.....	493
Patents Granted—New Corporations.....	494
Greenhouses Building or Contemplated.....	494

Plants of merit

Our cover illustration this week shows one of the most distinctive species of the garden astilbes of recent introduction. This plant, which was fully described in HORTICULTURE by E. H. Wilson in his interesting series of notes on the new Chinese plant introductions in the spring of 1910 is one of the principal parents of the Arendsi hybrids described and illustrated in Mr. Rothe's notes on another page. HORTICULTURE takes pride in the fact that quite a number of these sterling novelties had their first introduction to the American trade through its columns. In the excellent talk by Wm. Saville before the Florists' Club of Philadelphia this week on the Gems of the Perennial Garden, which we hope to pub-

lish in full in a future issue, there were mentioned Aconitum Wilsoni, Anemone hupehensis, Artemesia lactiflora and the Buddleias, all of which were in the list of new things described by Mr. Wilson in his initial contributions to HORTICULTURE in which attention was for the first time called to their prospective value to the American planter.

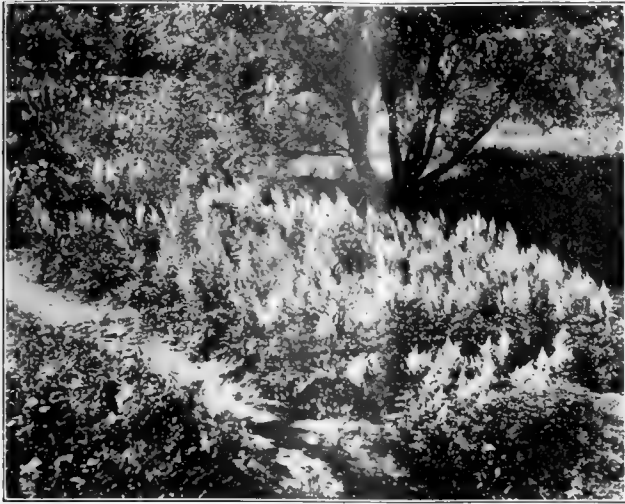
We commend to the attention of the The F. T. D. florist trade of the country the forcible announcement of the Florists' Tele-

graph Delivery Association which appears in this issue of HORTICULTURE. This energetic organization, starting not very many years ago with a few optimistic individuals inspired with ideals which to many seemed somewhat visionary and impracticable, has by steadfast purpose and sheer perseverance hammered out a most remarkable success which in its way is without a parallel in the horticultural activities of the world. The organization is not only exceptional and really unique in what it has built up for its members and for the florists' business interests generally but for what it has been able to do in recruiting and solidifying the best elements in the retail florist trade of the continent into active adherence to the Society of American Florists—a much desired but seemingly impossible achievement up to the time the F. T. D. tackled the problem. In making membership in the S. A. F. a prerequisite to F. T. D. membership the latter has set up a new standard which has certainly conduced very much to the prestige of both organizations.

For the Roses

It is pleasing to note a marked increase in the quantity, also the quality, of floricultural literature sent out from time to time by the U. S. Department of Agriculture through the Bureau of Plant Industry at Washington. Farmers Bulletin, No. 750, which is just received is a very well considered and instructive document of 36 pages, on Roses for the Home, by F. L. Mulford and is worthy of a cordial reception by everybody interested in having more and better roses grown in American gardens. Simultaneous with its appearance, there comes a series of nine articles in type-written form, each article of reasonable length for convenient publication, bearing upon and summarizing the contents of the aforesaid bulletin. These have been distributed to the editors of all horticultural and agricultural papers and so lucid are they in phraseology and so well do they answer the many questions which perplex not only the novice but the more advanced worker in the rose field as well, that their widespread dissemination should in due time have a marked influence on the popular demand for garden roses of all types. Although primarily intended for the edification and instruction of those who wish to grow roses for pleasure and for the adornment of their home grounds these bulletins should be hailed with satisfaction by the nurseryman and florist, for assuredly they are most potent propagandists in his behalf. There can be no doubt that one direct result of Professor Mulford's treatise will be an augmented demand for roses in many places and, of these, presumably a goodly number will come from beginners in rose culture who have hitherto given little or no thought to the subject or have lacked confidence in their ability to produce anything creditable, because of their ignorance of the requirements for success. Would it not show good business judgment and prove profitable in the long run for any retail dealer wishing to increase his rose sales, to secure some of these bulletins and pass them around among his customers who have garden space at their disposal?

Astilbes and Herbaceous Spiraeas



ASTILBE ARENDSI HYBRIDS

A survey of our standard plant material for hardy borders and flower gardens in regard to nativity shows the extraordinarily rich contributions of the far East, especially those from China, Siberia and Japan. Of the more recent introductions we shall doubtless learn to treasure many species after sufficient stock is at hand for dissemination at popular prices. In the meantime it seems opportune to look up the instances where we evidently have failed to appreciate merits of obvious distinction.

I well recollect the time when we forced *Astilbe chinensis*, *floribunda*, *aurea reticulata* and *Thunbergi* for Easter. Of late we are giving *Astilbe japonica* preference, Gladstone in pure white and Queen Alexandra in pale pink being general favorites. What will interest the greenhouse men and particularly those ambitiously after laurels as exhibitors in the near future are the new *Astilbe Arendsi* hybrids gained by crossing the *japonica* types with *Astilbe Davidi*. Of vigorous growth, combining stateliness with grace, they rank in shades from the soft silvery pink and the salmon of *Rosa Perle* and *Lachskoenigin* to the deep rich velvety rose of *Venus* and *Gloria*. The last spring shows brought forth a few specimens. In the near future we shall doubtless see more of them. But what about outdoor use? The reply may be: Oh, we enjoy astilbes at Easter in pots; that is enough. You will sometimes hear the complaint that the rose bugs bother them while in flower late in June and during July. A third one—the Easter pot plants in the garden and they did not do at all and seemed to die away. The nurseryman in a self-resigned way follows it up with the statement:—Astilbes and spiraeas don't move very well: This is the situation in the Middle Atlantic States today.

Trying the best species and varieties around Philadelphia during recent years I have found that astilbes in pots rarely, if ever, develop to the magnificent perfection and size of specimens grown in rich soil in *moist* and *partially shaded* positions out-of-doors. Rose bugs in this locality occasionally attack early-flowering white and light colored varieties and naturally in full sunlight more than in partial shade. The damage, however, in such cases, not being so noticeable as on the individual flowers of roses, peonies and especially Japanese iris, does not, as a rule, interfere seriously with the garden effect of spiraeas and astilbes at all. Throughout the North the beauty of plantations in full sunlight may be enjoyed without any insect annoyance

whatever. The assertion that astilbes don't do in the garden at all applies to high arid situations without the necessary irrigation and reasonable amount of care.

Prejudices may temporarily delay a general recognition of even the highest ornamental merits. Nevertheless, as horticulturists we cannot for any length of time afford to overlook a choice and decorative material by means of which we may bring to light novel and superior floral effects. In regard to the future out-of-door employment, particularly of astilbes, I frankly confess I have my visions. In our arrangements of ornamental plantations along the winding course of brook and creek or the shores of lake and pond I believe we have been in the habit of using perennials rather sparingly. Instances calling for rich floral arrays invariably prompts us to make liberal investments in rhizomatous iris. Suppose we add to the gorgeous hues of the Japanese type of iris the tall slender spikes of *Astilbe Davidi*, *grandis*, or the new *Moerheimi*. Suppose we introduce amid the attractive greenery of ferns or alongside of, say the heavy foliage of funkias, clumps of *Astilbe Arendsi* hybrids with their graceful panicles of flowers in the choicest shades of pink. It is in this case simply the use of the highest quality in material that I am suggesting should have a trial. Under proper conditions the results will not only remove any prejudice but are likely to turn out a revelation of rare beauty and a credit to the originator.

The herbaceous spiraeas or meadow-sweets are also decidedly moisture-requiring plants. The old well-known species *Spiraea Aruncus* with freely branching white spikes in form somewhat resembling those of the



SPIRAEA ARUNCUS

much larger of *Astilbe grandis* is shown by one of our illustrations. Of the other white flowering species I mention *Spiraea gigantea*, 5 to 6 feet tall; *ulmaria* fl. pl., medium high, and the low growing *filipendula* fl. pl. as the most desirable. *Spiraea palmata* and *palmata elegans* represent the best pink flowering types, while the species *Spiraea venusta* and its latest improvement *venusta magnifica*—the latter 4 to 5 ft. tall—may be classed the best red meadow sweets.

Root division is the customary procedure of growers in propagating astilbes and spiraeas. Stock may be also raised from seed sown in sandy peat under glass early in spring. Plants are absolutely hardy as far north as Canada. In our northern boundary states a leaf-covering over winter is advisable.

Glenide, Pa.

Richard Roth

CLUBS AND SOCIETIES

VEGETABLE GROWERS' ASSOCIATION.

The convention of the vegetable growers at Chicago, Ill., a partial account appeared in our last week's issue, was considered a success, although the attendance was largely local, the number of members from other states not being as large as was hoped for. Vice-President Selby of Philadelphia, who occupied the chair in the absence of the president, made an especially favorable impression, always knowing what to do and doing it without hesitation.

The outing took place on Wednesday according to schedule, despite a steady rain, which was good naturedly declared always a friend to market gardeners. Almost a hundred automobiles were waiting at the La Salle to carry the visitors, and the French Gardens were first inspected, then the Poehlmann Bros.' plant at Morton Grove, where Aug. Poehlmann personally conducted the guests through plants A and C. Luncheon followed at the Wayside Inn, and 600 did full justice to the good things prepared for them. After dinner speeches with W. L. Kroeschell toast-master, followed. Among the interesting facts brought out were these, Cook County, in which Chicago is located, is 7th in agriculture in the United States and Lancaster, Pa. is first; we are schooled inside buildings but not educated; a single new idea is often worth the expense of a convention.

The closing event of the convention was a banquet, at which 176 were present, and was a fitting finale for the ninth annual meeting of the vegetable growers. W. L. Kroeschell again ably acted as toast-master and responses were made by N. C. Tolles of the Chamber of Commerce; H. W. Selby, Phila.; Vice-pres. R. L. Watts, State College, Pa.; C. W. Waid, Mich. Ag. College; S. W. Severance, Louisville, Ky., and C. E. Durst, U. of Illinois.

The trade exhibition was both big and comprehensive and the extensive displays by the Cook County school children made a wonderful impression. Among the trade exhibitors were the following:

American Greenhouse Mfg. Co., greenhouse fittings; Armour & Co., fertilizers; Beeman Tractor Co., motor cultivators; A. Dietrich & Co., short span greenhouse; American Mutual Insurance Co., cyclone and hail insurance for greenhouses; Coyne Bros.; John C. Moninger Co., model all-steel frame greenhouse; Lord & Burnham Co., section of pipe frame greenhouse, hot bed sash and boiler; Foley Greenhouse Mfg. Co., section of standard greenhouse and hot bed sash; Garland Mfg. Co., Garland gutters; S. J. Allen, Plaster, J. L. implements; Vaughan's Seed Store, implements, seeds, plants, etc.; Jos. E. Pollworth, fertilizers; M. B. Slane, emergency clamps; Leonard Seed Co., seeds and garden machinery; The Packer, trade paper; Hensell Grate Bar Co., grate bars; Kroeschell Bros. Co., steam boilers and refrigerating plant; Southern Cypress Co., model bungalow; H. Munson, boiler flues; Skinner Irrigation System; Advance Co., ventilating apparatus and fittings; E. J. Hammond, insecticides; Poehlmann Bros. Co., garden hose and insecticides; Superior Boiler & Engine Co., model of boiler; A. L. Randall Co., sundries; Brown & Co., agent Co.

Meetings Next Week

Monday, Oct. 9.

Cleveland Florists' Club, Hollenden Hotel, Cleveland, Ohio.
Gardeners and Florists' Club of Baltimore, Florists Exchange Hall, Baltimore, Md.

New York Florists' Club, Grand Opera House, New York City.
Rochester Florists' Association, 60 Main St., East Rochester, N. Y.

Tuesday, Oct. 10.

American Association of Park Superintendents, Newport Society, Newport, R. I.

Wednesday, Oct. 11.

Cincinnati Florists' Society, Jabez Elliott Flower Market, Cincinnati, O.
Dutchess County Horticultural Society, Palkill Bldg., Poughkeepsie, N. Y.

Lenox Horticultural Society, Lenox, Mass.

Madison County Horticultural Society, Madison, N. J.

Nassau County Horticultural Society, Pembroke Hall, Glen Cove, N. Y.

Thursday, Oct. 12.

Monte Park Horticultural Society, Menlo Park, Calif.

New London Horticultural Society, Municipal Bldg., New London, Conn.

Friday, Oct. 13.

Connecticut Horticultural Society, County Building, Hartford, Conn.

Westchester and Fairfield Horticultural Society, Doran's Hall, Greenwich, Conn.

Saturday, Oct. 14.

Dobbs Ferry Gardeners' Association, Dobbs Ferry, N. Y.

cement construction; Kentucky Tobacco Product Co., insecticides; Gray & Co., cement machinery; Market Growers' Journal; Ickes-Braun Mill Co., greenhouse lumber.

The University of Illinois, University of Ohio, University of Indiana, and University of Pennsylvania made extensive educational exhibits.



E. A. DUNBAR, Ashtabula, Ohio.
The following are the names of the exhibitors at the vegetable growers' convention at Chicago, Ill., who were present at the meeting of the vegetable growers' association at Chicago, Ill., a partial account appeared in our last week's issue, was considered a success, although the attendance was largely local, the number of members from other states not being as large as was hoped for.

LANCASTER COUNTY FLORISTS' ASSOCIATION.

At the monthly meeting held on Thursday evening, September 28, M. J. Brinton of Christiana read a paper which he called "Hash." Mr. Brinton is a little more than a florist; he is a man of affairs and a student of political and economic conditions, hence his "Hash" was pretty rich food, the kind that creates both brain and brawn. He reviewed the unhealthy condition of business today with its immense war profits along certain lines, profits that are a detriment to our particular business in the way they affect the labor and supply market. This increase of cost all along the line was used to demonstrate the necessity of our getting higher prices for our products.

He showed how the country at large was ripe for a good year in the florists' business and urged the production of high quality stock, so that this demand might be met with the satisfaction to the buyer that creates future business. Co-operation between all lines of our business was urged as a fundamental principle in the building of success, and especially between the grower and the distributor. He advised florists to keep in constant touch with business conditions and especially so in the general readjustment that will follow the close of the war.

His paper set us all to thinking, the first thought being one of gratitude for his able paper, and a hearty vote of thanks was tendered him for this contribution to our club literature.

The Flower Show committee reported gratifying progress and A. M. Herr gave a resume of the Vincent trip. Frank Kohr, Lemon Landis and A. K. Rohrer were appointed as an automobile committee to arrange for automobiles to be used on our visiting trips. Fred Spinner of Lititz had a very handsome vase of Chrysanthemum Smith's Advance on display.

The next meeting will be held Oct. 19th and we hope to have Mr. Otto Thilow of H. A. Dreer give us one of his lectures, as Mrs. Albert M. Herr, chairman of the Junior Garden Department of the Iris Club, has secured him for the afternoon. A trip will be made visiting the growers in the vicinity of Lancaster, starting from the square at 1 o'clock via automobile.

ALBERT M. HERR.

CLEVELAND FLORISTS' CLUB.

The regular meeting of the Cleveland Florists' Club was held Monday night, Oct. 2. The chief topic of discussion was the holding of a flower show in Cleveland every year, also the one to be held this year on Nov. 10, 11 and 12 at The Hollenden Hotel.

President Pentecost has announced the following standing committees: Executive—H. P. Knoble, chairman; Timothy Smith, Geo. Bate, O. P. Blackman and Frank Friedley. Entertainment—W. E. Cook, chairman; Frank J. Ritzenthaler, Chas. Bastian. Reception or "Glad Hand"—H. P. Merritt, chairman; H. P. Rapley, K. W.

MAMMOTH AUCTION SALES

on **TUESDAY, OCT. 10** } 10 o'clock a. m.
and **FRIDAY, OCT. 13** }

Mammoth Shipments of Dutch and French-Grown Bulbs

ALSO LOCAL CONSIGNMENTS OF

Palms, Ferns, Dracaenas, Rubbers, etc., to be offered in lots to suit the large and small buyer

Send for weekly auction catalogue.

The MacNiff Horticultural Co.

52 to 56 Vesey Street, NEW YORK

THE LARGEST HORTICULTURAL SALESROOMS IN THE WORLD

PEONY DAHLIA — Mrs. Frederick Grinnell

Seedling 1911. The Most Wonderful Dahlia Introduction. Creates a Sensation Wherever Shown

Its color is pond-lily pink, and like the pond-lily, it will grow in water from a bud just showing color to a full bloom. It keeps anywhere from four to ten days and will show its color in artificial light as well as in sunlight. Grows equally well in shade or sun, does not require rich soil and has a delicate fragrance which is very inviting.

Has received the following awards:

- 1st Class Certificate New Bedford Horticultural Society, September 14, 1911.
- 1st Class Certificate Massachusetts Horticultural Society, August 8, 1914.
- 1st Class Certificate Newport Horticultural Society, August 13, 1914.
- Bronze Medal Massachusetts Horticultural Society, August 7, 1915.
- Bronze Medal Newport Horticultural Society, August 12, 1915.
- Special award Southern New England Country Fair, September 14, 1915.
- Silver Medal, New Bedford Horticultural Society, September 21, 1915.
- Silver Medal, Massachusetts Horticultural Society, September 9, 1916.
- Gold Medal, Rhode Island Horticultural Society, September 12, 1916.

ORDERS Will be Taken Now for Delivery Next Spring. Rights or Stock For Sale in Whole or in Part Address for Particulars

JOHN P. ROONEY

93 BEDFORD STREET, - NEW BEDFORD, MASS.

Bell Phone 2486-W

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

HATBORO, PA.

In Stock ROSE STAKES

EXTRA STIFF No. 9 GALV. WIRE
4½ feet—\$13.05 per 1000

CARNATION SUPPORTS

\$18.00 per 1000 plants.

THE CARNATION SUPPORT CO., Connorsville, Ind.

REMEMBER!

If it's a Hardy Perennial or so called Old Fashion Flower worth growing, we have it in one shape and another the year round. We have the largest stock in this country, all made in America, and our prices

will average 75c. per doz., \$5.50 per 100.

Why say more here? Send for our Wholesale Price List of varieties and benefit from the opportunities this affords you. Address

PALISADES NURSERIES, Inc.

R. W. CLUCAS, Manager.

SPARKILL - - N. Y.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS and HERBACEOUS PLANTS.

P. OUWERKERK, 210 Jane St. Wobankton Heights P. O. No. 1, Hoboken N. J.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY. Small, medium and large sizes supplied. Price list now ready.

THE D. HILL NURSERY CO.
Evergreen Specialists. Largest Growers in America.
BOX 415, DUNDEE, ILL.

BOBBINK & ATKINS

Nurserymen, Florists and Planters

RUTHERFORD, NEW JERSEY

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

LILY BULBS

RALPH M. WARD & CO.

71 MURRAY ST., NEW YORK

HYDRANGEA

OTAKSA & AVALANCHE

Field grown plants, ready for 6-inch pots; \$14.00 per 100.

ANGLIN & WALSH CO.

W. Hamsbridge, N. Y.

When Writing to Advertisers Please Mention Horticulture

SERVICE

JOHNSON & MILLANG, Inc.

AUCTIONEERS

Coogan Building, 55-57 West 26th Street, New York
(Under Cut Flower Exchange)Bulbs, Plants, Etc., At Auction Every Tuesday and
Friday at 10.00 A. M. WRITE FOR CATALOG

AMERICAN ASSOCIATION OF NURSERYMEN.

President Watson has appointed the following committees to serve for 1916-1917.

Arrangements: Thos. B. Meehan, Dresher, Pa.; Wilmer W. Hoopes, West Chester, Pa.; Adolf Muller, Norristown, Pa.; Wm. Warner Harper, Philadelphia, Pa.; William Flemer, Springfield, N. J.

Arbitration: W. C. Reed, Chairman, Vincennes, Ind.; G. A. Marshall, Arlington, Neb.; A. E. Robinson, Lexington, Mass.; J. M. Pitkin, Newark, New York; L. A. Berckmans, Augusta, Ga.

Exhibits: Albert F. Meehan, Chairman, Dresher, Pa.; G. Horton Bowden, Geneva, New York; G. Hale Harrison, Berlin, Md.

Program: J. R. Mayhew, Chairman, Waxahachie, Tex.; Lloyd C. Stark, Louisiana, Mo.; C. R. Burr, Manchester, Conn.

Report of Proceedings: Curtis Nye Smith, Chairman, Boston, Mass.; William Pitkin, Rochester, N. Y.; John H. Dayton, Painesville, Ohio.

Nomenclature: J. Horace McFarland, Chairman, Harrisburg, Pa.; Harlan P. Kelsey, Salem, Mass.; L. A. Berckmans, Augusta, Ga.; Charles J. Maloy, Rochester, N. Y.; F. L. Atkins, Rutherford, N. J. Honorary Member: Prof. Frederick W. Coville, Dept. Agric., Washington, D. C.

Tariff: Irving Rouse, Chairman, Rochester, N. Y.; L. A. Bobbink, Rutherford, N. J.; William P. Stark, Neosho, Mo.; J. W. Hill, Des Moines, Ia.; Charles E. Greeing, Monroe, Mich.; James McHutchison, New York, N. Y.; J. C. Vaughan, Chicago, Ill.; D. S. Lake, Shenandoah, Ia.; W. H. Wyman, No. Abington, Mass.; T. J. Smith, Geneva, N. Y.; John H. Dayton, Painesville, O.

Press: Ralph T. Oleott, Chairman, Rochester, N. Y.; Robert Pyle, West Grove, Penn.; Frank B. White, Chicago, Ill.; J. Horace McFarland, Harrisburg, Penn.; Adolf Muller, Norristown, Penn.

Revision of Telegraphic Code: R. C. Chase, Chairman, Chase, Ala.; E. S. Welch, Shenandoah, Ia.; J. H. Dayton, Ohio.

Hail Insurance for Nurserymen: Frank A. Weber, Chairman, Nursery, Mo.; E. P. Bernardin, Parsons, Kas.; H. D. Simpson, Vincennes, Ind.; Milton Moss, Huntsville, Ala.; F. H. Stannard, Ottawa, Kas.

Publicity: F. L. Atkins, Chairman, Rutherford, N. J.; R. C. Berckmans, Augusta, Ga.; T. J. Smith, Geneva, N. Y.; J. R. Mayhew, Waxahachie, Tex.; J. B. Pilkington, Portland, Ore.; Henry Hicks, Westbury, N. Y.; Lloyd C. Stark, Louisiana, Mo.

Distribution: M. R. Cashman, Chairman, Owatonna, Minn.; A. M. Augustine, Normal, Ill.; Maxwell Sweet, Dansville, N. Y.; Roy Underwood, Lake City, Minn.; F. A. Smith, Tipppecanoe City, Ohio; A. C. Hanson, Wauwatosa, Wis.; John S. Kerr, Sherman, Tex.

Transportation: Charles M. Sizemore, Chairman, Louisiana, Mo., Traffic Manager for the Association.

Landscape: W. H. Wyman, Chairman, No. Abington, Mass.; F. L. Atkins, Rutherford, N. J.; J. M. Pitkin, Newark, N. Y.; Wm. Warner Harper, Phila., Pa.; Thos. B. Meehan, Dresher, Pa.; Harlan P. Kelsey, Salem, Mass.

Legislation: William Pitkin, Chairman, Rochester, N. Y.; Peter Youngers, Geneva, Neb.; Irving Rouse, Rochester, N. Y.; Abner Hoopes, West Chester, Pa.; Thos. B. Meehan, Dresher, Pa.; J. M. Pitkin, Newark, N. Y.; J. H. Dayton, Painesville, Ohio; E. S. Welch, Shenandoah, Ia.; A. E. Robinson, Lexington, Mass.; W. P. Stark, Neosho, Mo.; W. T. Hood, Richmond, Va.; R. C. Chase, Chase, Ala.; W. H. Wyman, No. Abington, Mass.; L. A. Berckmans, Augusta, Ga.; W. F. Ilgenfritz, Monroe, Mich.; E. W. Chaffin, Winchester, Tenn.; W. C. Reed, Vincennes, Ind.; F. H. Stannard, Ottawa, Kas.; William Flemer, Springfield, N. J.; E. F. Coe, Fort Atkinson, Wis.; C. R. Burr, Manchester, Conn.; L. A. Smith, Lake City, Minn.

FLORISTS' CLUB OF PHILADELPHIA.

Wm. F. Saville of the Michell Co. was the star of the evening, Oct. 3, in

Coming Exhibitions

Oct. 10-12, New Orleans, La.—Eighteenth Annual Convention American Association of Park Superintendents.

Oct. 26-27, Madison, N. J.—Twenty-tenth Annual Flower Show, Morris County Gardeners' and Florists' Society, James Assembly Hall.

Oct. 27-29, Mount Kisco, N. Y.—Fall show of the Northern Westchester County Hort. and Agri. Soc.

Oct. 31-Nov. 1, Greenwich, Conn.—Fall Flower, Fruit and Vegetable Show of the Westchester and Fairfield Horticultural Society.

Nov. 1-5, Boston.—Grand Autumn Exhibition of Plants, Flowers, Fruits and Vegetables, Massachusetts Horticultural Society, Horticultural Hall.

Nov. 1 to 3, Tarrytown, N. Y.—Chrysanthemum show of the Tarrytown Hort. Soc. in Music Hall.

Nov. 2-3, New Bedford, Mass.—New Bedford Horticultural Society, Annual Chrysanthemum Show.

Nov. 8, Philadelphia.—Chrysanthemum Society of America in conjunction with Pennsylvania Horticultural Society.

Nov. 8-10, New York.—Annual Chrysanthemum show of the American Institute, Engineering Society Bldg., 25-33 W. 39th St., New York.

Nov. 9-10, Bloomington, Ill.—Fall Flower Festival, Illinois State Florists' Association.

Nov. 9-11, Lancaster, Pa.—Fall flower show.

Nov. 9-12, New York.—Fall exhibit Horticultural Society of New York at Museum of Natural History.

Nov. 11-19, New Orleans, La.—Flower show.

Nov. 14-15, Providence, R. I.—Flower show of R. I. Hort. Soc.

his address on October Glories in Outdoor Flowers. He made a splendid address and scored many new points which it will be well for the experts to take note of. In illustration of his remarks there was one of the finest exhibitions of seasonable flowers we have ever seen. It was a liberal education to every member of the Club and worth to the student many times the cost of membership. October being the annual meeting, the following were elected officers for the ensuing year: President, Adolph Farenwald; vice-president, D. Colflesh; secretary, David Rust; treasurer, George Craig.

AMERICAN ROSE SOCIETY.

The American Rose Society has received application for Rose Test Gardens in the States of Washington and Texas. The interest that has been aroused in this line seems to be going country wide, and predicts better trade for rose growers.

This year there has been a marked increase in the receipt of Associate members: the present membership of the Society exceeding four hundred not including Life Members.

There will be a meeting of the Executive Committee shortly at which matters of decided interest will be taken up. Twenty-eight members have subscribed to the fund for the investigation of "Black Spot."

BENJAMIN HAMMOND, Secy.
Beacon, N. Y.

NEW JERSEY FLORICULTURAL SOCIETY.

The eleventh annual show of the New Jersey Floricultural Society was held in the Jr. O. U. A. M. Hall, on Monday, September 18. The date proved to be a trifle early and the number of entries fell short of the previous year. The vegetable classes were well filled with some fine displays. A group of herbaceous plants and shrubs by the Elizabeth Nursery Co. was well staged and received a special prize. A collection of fruit by S. M. and A. Colgate, of Orange, was the finest ever seen in this part of the country. The judges were John P. Sorenson, Alex. Robertson and Walter M. Gray.

List of Awards.

36 Dahlias in 12 varieties, Hitchings cup, Dr. D. P. Millsbaugh, Paterson, N. J.
50 Show dahlias, 1st, C. C. Goodrich, Orange.
25 Show dahlias, Mrs. Wm. Barr, West Orange.
25 Decorative dahlias, W. A. Manda, Inc., So. Orange.
Centrepiece of dahlias, Peter Hauck, Jr., E. Orange.
Display of seedling dahlias, Mrs. Wm. Barr.
Best flower of dahlia "Hortulanus Flet.", Dr. Millsbaugh.
Best display of "Canna Firebird" in pots, Peter Hauck, Jr.
Display of gladiolus, S. M. and A. Colgate, Orange.
12 Decorative dahlias, W. A. Manda.
12 Cactus, Mrs. Wm. Barr.
6 Decorative, Hugh Volkening, Orange.
4 Yellow show, Essex Co. Country Club.
4 Pink show and 4 White decorative, Dr. Millsbaugh.
4 Red decorative and 4 Maroon decorative, W. A. Manda.
4 Red cactus, Mrs. W. Barr.
4 Cactus and 25 Pompon, Dr. Millsbaugh.
6 Decorative dahlias, 6 vars., W. A. Manda.
Specimen show, Dr. Millsbaugh.
Display of vegetables, Thorburn silver cup, Dr. Millsbaugh; 2nd, Henderson & Co. prize, Peter Hauck, Jr.
Open to All.—Collection of vegetables, Stumpp & Walter silver cup, Peter Hauck, Jr.
Display of fruits, S. M. and A. Colgate, Outdoor grown grapes, Peter Hauck, Jr.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

Much local interest is being taken in the coming convention of the American Association of Park Superintendents to be held in New Orleans, La., on Oct. 10, 11, 12. At a meeting held in the parlors of Hon. Martin Behrman, mayor of the City of New Orleans, who presided over one hundred and ten chairmen and members of the various local park boards (in New Orleans, each park has its separate board or commission), the mayor emphasized the importance of the coming convention, and earnestly requested every member of local park boards to attend all sessions, expressing himself as assured it would be a great inspiration and benefit to them in their park work. The mayor was authorized to appoint a sub-committee to have charge of the details of entertainment, which will include inspection trips to various parks, a boat trip, a trip to the Southern Yacht Club, the City Nursery, etc. The sessions will be held at the Grunewald Hotel.

NARCISSUS

Paper White Grandiflora

13 cm. and up

We have a few more cases on hand and offer these extra quality bulbs at \$12 per 1000; \$15 per case of 1300.

HOGEWONING & SONS

RYNSBURG, HOLLAND
32 Broadway New York

Winter Spencer Sweet Peas

THREE EXCELLENT SORTS

BRIDAL VEIL

Pure white. A cross between White Orchid and Whitebelong, one of the earliest. Its color and purity of color make it one of the best. White seed: 1 Oz. \$1, 1/4 lb. \$2.50, 1 lb. \$2.

PINK-AND-WHITE ORCHID

Similar in color to Christmas Pink, but produces a larger flower on longer stems. 1 Oz. 65 cts., 1/4 lb. \$2, 1 lb. \$7.50.

YARRAWA

Bright rose-pink, with light wings. Yarrowa has the heavy foliage and strong growth of the summer flowering type, and is a true winter blooming Spencer. Seed sown early in October will flower about January 1, and bloom profusely and continuously until June. Yarrowa is absolutely fixed and true to color and type. The flowers are exquisitely waved, and when full grown will average 2 1/2 inches in diameter. They are borne usually in fours on extra-long, strong stems.

Australian grown seed: 1 Oz. \$2.00, 1/4 lb. \$7.00, 1 lb. \$24.00.
Californian grown seed: 1 Oz. 65 cts., 1/4 lb. \$2.25, 1 lb. \$8.00.

Full descriptive list of all Winter Spencer Sweet Peas and Seasonable Flower Seeds will be found in our new Bulb Catalogue, mailed free on request.

2-5 PER CENT. DISCOUNT FOR CASH WITH ORDER

ARTHUR T. BODDINGTON CO., Inc.

128 Chambers St., NEW YORK CITY

"TEAR DOWN" WEEK.

The Massachusetts Forestry Association is heading a movement to free the public shade trees and other objects within the public highways of the State, of all illegally posted advertising matter.

These signs have been declared a public nuisance by law, and should be removed. The parties responsible for posting such signs may not know that they are breaking the law, and are subject to fines, but such ignorance will not excuse them. Automobile Clubs, Women's Clubs, Boards of Trade, and other organizations are being asked to co-operate in this work to rid the highways of their respective towns of this obnoxious nuisance. Many of them have already made plans to participate in this clean-up work during the "Tear-Down" week, October 9 to 14 inclusive.

Here is a chance for the public to register its sentiment concerning this illegal advertising. The beauty of our highways in many sections is spoiled by these signs. Our shade trees which represent a value of hundreds of thousands of dollars, are in many instances being injured by such signs. Thousands of tourists visit our state annually because of our good roads. Why should we not keep our roadsides beautiful? Everybody can help to clean up our highways. If everyone will take it upon himself to remove these signs along one mile of road near his home, the whole state can be covered in this one week.

We hope that this appeal will enlist all persons who have felt that some-

thing should be done in this matter to the end that our highways shall again be restored to their natural beauty.

—Press Bulletin, No. 7.

PERSONAL.

Thomas Flynn has resigned as florist for Higaho Company at Osterville, Mass., to take charge of an estate on Long Island, N. Y.

John Oliver, gardener on the Shedd estate, Tilton, N. H., met with an accident which will confine him to his home for several weeks.

H. W. Ross has accepted again the position of superintendent of Newton Cemetery, Newton, Mass., filling the vacancy caused by the death of his father who succeeded him as superintendent two years ago when he resigned to go into business in Worcester.

The complete schedule for the Annual Exhibition of the Tuxedo (N. Y.) Horticultural Society has been issued. It is a finely printed and attractive publication. The show will be held at the Tuxedo Club on Friday, Saturday and Sunday, Nov. 3, 4 and 5. Thos. Wilson is secretary of the society and Fred'k Bentley is exhibition manager. There are ninety-eight classes in the prize list.

Shipments received this week by McHutchison & Co. include 500 bales of raffia, also 22,000 pieces of raffia cloth, which was introduced by them for the manufacture of men's hats.

BELGIAN AZALEAS COMING.

From McHutchison & Co. we have received the following encouraging communication:

Since we wrote you Sept. 19th with regard to shipments of Azaleas, etc. coming this fall from Belgium, the prospects have become more favorable. We know now definitely that at least some shipments will come—perhaps all of them. Several hundred cases are already in transit from Rotterdam per S. S. Ryndam. Of course we cannot tell which orders the shipments contain until the shipping documents arrive.

August Rolker & Sons also write as follows:

We had cable last Thursday stating that the first shipment of azaleas are coming by S. S. Ryndam, leaving Rotterdam, Saturday, September 30th.—This notice refers, of course, only to shipments in our care; what others are getting we do not know, but we think this means the starting of azalea shipments from Belgium for this season. We believe this success is mainly due to the efforts of the Belgian Chambre Syndicate Horticole, assisted by the efforts of our Rotterdam forwarders to influence England to allow a liberal advance payment to the Belgian growers from last year's funds remitted by British request to a London Bank, and held there in trust for the Belgian growers.



LILIUM FORMOSUM

LILIUM FORMOSUM BULBS

We have just received a late shipment of bulbs of this favorite type of Lilies, which are extra fine. You should be sure to try some of them. Our bulbs have been grown from the original true type, and none better can be obtained at any price. We advise immediate ordering, as the stock is limited.

GREEN STEM TYPE (For Early Blooming).

	Bulbs in each case	Doz.	100	1000
6 to 8 inches.....	400	\$.65	\$1.75	\$42.50
7 to 9 inches.....	300	1.00	6.50	58.00
8 to 9 inches.....	250	1.00	6.50	62.50
8 to 10 inches.....	225	1.30	8.75	82.50
9 to 10 inches.....	200	1.60	10.00	92.50
10 to 12 inches.....	150	2.00	14.00	130.00
12 to 14 inches.....		2.50	17.50	165.00

DARK STEM TYPE (For Easter Blooming).

	Bulbs in each case	Doz.	100	1000
6 to 8 inches.....	400	\$.80	\$5.00	\$45.00
7 to 9 inches.....	300	1.15	7.00	65.00
8 to 9 inches.....	250	1.15	7.25	70.00
8 to 10 inches.....	225	1.50	9.50	90.00
9 to 10 inches.....	200	1.80	12.50	105.00
10 to 12 inches.....	150	2.25	15.00	142.50
12 to 14 inches.....		2.75	18.50	175.00

FOR FULL LINE OF BULBS, PLANTS, SEASONABLE SEEDS AND SUPPLIES WRITE FOR OUR NEW CATALOGUE.

HENRY F. MICHELL CO. 518 Market St. PHILADELPHIA

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

Crop Reports From Holland.

From the September crop report of Slus & Groot we extract the following: Cabbage, Red Cabbage, Brussels Sprouts, Borecole—Stand here and there sufficient but in general very poor.

Turnips and Swedes—Poorest average yield in many years.

Mangels, Sugar Beets, Beets—Stand rather satisfactory.

Kohlrabi—Very poor and scanty.

Radish, Winter Radish—Unusually small plantations but does not look bad. Several sorts of Winter Radish fail wholly.

Onion Minimum acreage, and with home requirements little will be left for export.

Garlic—Stand very good.

Parsley—Stand averages rather good.

Chervil—A moderate crop.

Spinach—Middling stand and not more than one-half normal produce may be expected.

Cucumber—Looks like a poor and rather late crop.

Peas—Only small area, but not unsatisfactory.

Dwarf Beans—Several fields totally lost; at best only a middling crop expected.

Running Beans—Small acreage. Crops retarded greatly.

Broad Beans—Stand rather good.

Parsnip—Stand satisfactory.

Scorzonera—A small average crop.

Corn Salad—Dutch large seeded sown on small scale and very high price expected. Stand not bad.

Celery—Small acreage. A sufficient crop if mild weather continues.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending Sept. 22, were recorded as follows:

Bulbs—France, \$6,744; Netherlands, \$280,357; England, \$13; Brazil, \$126; Hongkong, \$3,150; Japan, \$7,096.

Plants—Scotland, \$157; Bermuda, \$9; Colombia, \$400; Venezuela, \$336; Gibraltar, \$10; Netherlands, \$77.

Red clover seed—France, \$6,000.

Clover seed—England, \$2,727; Canada, \$4,693.

Grass seed—Denmark, \$7,236; England, \$140; Ireland, \$961.

Other seeds—Denmark, \$348; France, \$429; England, \$1,044; Bermuda, \$5; Hongkong, \$61; Japan, \$36; Canary Islands, \$328.

Nitrate of soda—Chile, \$159,637.

Other fertilizers—England, \$300.

Notes.

Palm seeds are reported to be a very scarce commodity in France and Great Britain.

Axel Knudsen, of Minneapolis, Minn., American representative for L. Daehnfeldt, Ltd., of Odense, Denmark, has received a cablegram from his firm announcing that the Danish Government has prohibited all export of Mangel seed. This embargo will prevent all deliveries of Mangels on the 1916 contracts. Mr. Knudsen says that—of course, it is possible that the embargo may be lifted again this fall, in which case notice will promptly be sent out, but with the present outlook, the prospect of delivery is very remote.

The Danish Export Review, for August, 1916, devotes four pages to an interesting description of Danish seed cultivation as carried on by Hjalmar Hartmann & Co., of Copenhagen. As

is well known, Denmark has in recent years attained a leading position in the province of seed cultivation and improvement, especially as regards all varieties of cabbage and the cruciform family of vegetables. The Danish seeds have such conspicuous properties and qualities that the markets of the world have long been open to them and among the producers and exporters best known and most highly esteemed in this country is the house of Hartmann, which for the past four years has been efficiently represented by Loechner & Co., of New York City. The firm of Hartmann was founded in 1894 and their export of cauliflower seeds to America dates from the year 1899. Recently they have acquired in addition to their previous large holdings a tract of about 300 acres of land near Copenhagen for the propagation and cultivation of advanced strains of their seed specialties.

FLORICULTURE AT OHIO STATE COLLEGE.

Instruction in floriculture has been offered for the first time this collegiate year at the Ohio State University College of Agriculture, Columbus. Opportunities are afforded for study of the main florist crops, their diseases, and insect enemies. Garden flowers, greenhouse management and construction, as well as flower shop work and landscaping, will also receive attention.

The courses are being offered both in the four-year college course which has already begun and in the three-year course which begins October 17. Instruction is in charge of Professor Alfred C. Hottes. Professor Hottes comes to Ohio from Cornell University, New York, where he was an instructor in charge of the work in garden flowers and of the winter courses.

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

Lilium Harrisii Bulbs

	Per 100	Per 1000
5 in. to 7 in.	\$5.00	\$40.00
7 in. to 9 in.	9.00	80.00
9 in. to 11 in.	22.00	

FREESIA REFRACTA ALBA

	Per 100	Per 1000
Mammoth Size	\$1.75	\$12.00

For Immediate Delivery

**PAPER WHITE NARCISSUS
GRANDIFLORUS**

Prices on Application

J. M. THORBURN & CO.

53 Barclay Street
Through to 54 Park Place
NEW YORK CITY

KELWAY & SON

SPECIALIZE IN

SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or Forward

Only Address, LANGPORT, Eng

Burpee's Seeds**PHILADELPHIA**

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

J. BOLGIANO & SON**WHOLESALE FIELD AND GARDEN SEEDS**

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter flowering Pink Snapdragon on
the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.**PHILADELPHIA, PA.**

My new Price List of

**WINTER-ORCHID-FLOWERING SWEET
PEA SEED**

Has been mailed. If you have not received
a copy, send me postal. Part of new crop
will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

THOMAS J. GREY COMPANYSEEDS, BULBS AND IMPLEMENTS
WHOLESALE AND RETAIL.

Reselected Strains in Seeds.

Improved styles in Implements.

Catalogue upon application.

29 So. Market Street
BOSTON, MASS

SOW NOW
FARQUHAR'S Giant Cyclamen

Awarded the Gold Medal of
the Massachusetts Horticultural
Society.

Blood Red**Crimson****Pink****Salmon****White**

Excelsior, white with
claret base.

Each of the above varieties,
100 seeds \$1; 1000 seeds \$10.

R. & J. FARQUHAR & CO., 6 South Market Street
BOSTON

LEONARD'S SEEDS**and SEED SERVICE**

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

AMERICAN BULB COMPANY**172 N. Wabash Ave.****CHICAGO, - ILL.**

We are now ready to book orders for French and Dutch
Bulbs, Lilies and other Florists' Necessities.

WRITE US FOR PRICES

POINSETTIAS**August Shipment**

True type, fine 2½ inch plants, shipped in
paper pots, \$6.00 per 100, \$50.00 per 1000.

A. HENDERSON & CO.

211 N. State St.

CHICAGO, ILL.

NEW CROP SEEDS

PANSY SEED. Giant flowering florist mixture, American grown. (Best money can buy.) 50c. per tr. pkt., ¼ oz. \$1.50, oz. \$5.00.
PANSY SEED SPECIAL. Greenhouse mixture for forcing; long-stemmed. \$1.00 per tr. pkt., ¼ oz. \$1.50, ¼ oz. \$2.50; oz. \$8.00.
SWEET PEAS. Zvolanek's Orchid Flowering in all varieties. I have his agency this season.

ROMAN J. IRWIN,
Plants, Cuttings, Bulbs, Seeds.
105 West 28th Street - New York.

When writing to advertisers kindly
mention HORTICULTURE

**LILIAM FORMOSUM
LILIAM HARRISII
LILIAM GIGANTEUM**

Prices on Application. Write for 1916
Bulb Catalog.

JOSEPH BRECK & SONS' CORP.
47-51 North Market St., Boston, Mass.

W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries

166 W. 23rd St., NEW YORK

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

Penn.
The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.
BOSTON

FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

MAX SCHLING

22 West 59th St.

Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.
DENVER, COLORADO

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, New York
Telephone 1500-1505 Columbus

Of Interest to Retail Florists

NEW FLOWER STORES.

Shelbyville, Ill.—Edwin Morner.

Riverton, N. J.—Matthew A. Flynn.

Chicago—Bruce, Florist, 6906 Stony Is. Ave.

Syracuse, N. Y.—Harold Brown and Charles Bourne.

Pittsburgh, Pa.—Albert Brigg, 904 Federal St., N. S.

Cleveland, O.—Jack Keck, removed to 9002 Cedar Ave.

Alhambra, Calif.—B. W. Gesler, successor to L. B. Hill.

La Crosse, Wis.—L. E. Metcalf, successor to Mrs. A. Guillaume.

Martinsburg, W. Va.—Mrs. T. J. Phillips, The Flower Store, 134 West King St.

Harrisburg, Pa.—Davenport Flower Shop, 325 Market St., H. G. Moore, Mgr.

New Bedford, Mass. — Up-to-Date Flower Shop, 610 Pleasant St., Fred C. Covill, proprietor.

Chicago, Ill.—Nick Speropoulos, 7 W. Monroe St., successor to Nick Korson. H. Jacobson, 955 E. 55th St.

NEWS NOTES.

Richmond, Ind.—William H. Gardener has purchased the greenhouse range of the Charles Knopf Floral Co.

Seattle, Wash.—The Bryn Mawr Greenhouses have been purchased by Ralph Richardson and Joseph Stuber.

New York, N. Y.—I. L. Radwaner has removed from Pearl street to larger quarters at 83-85 Water street.

New York—Douglas L. Elliman & Co. leased the large corner store in 922 Madison avenue for a long term to Siebrecht, florist, who recently sublet his store at 615 Fifth avenue.

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. BOSTON

Telephone Main 55.

**JOHN BREITMEYER'S
SONS**

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUDE BROS CO
1214 F ST NW
WASHINGTON DC

GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE
National Capital

At your service to deliver Flowers or Designs on Order by Telegraph or otherwise. Prompt Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 306. Long Dist. Bell Phone 2789
Members Florists Telegraph Delivery

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD
NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction

MEMBER F. T. D. A.

CHICAGO

Send Your Orders to

WILLIAM J.**SMYTH**Member Florists' Telegraph
Delivery Association**Michigan Ave. at 31st Street**Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1836 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1801 and L 1882.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Member Florists' Telegraph Delivery Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE125,000 Sq. Ft. of Glass
WORCESTER, MASS.**Flowers by Telegraph**

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State St.

Albany, N. Y.—The Rosery, 23 Steuben St.

Albany, N. Y.—William C. Gloeckner, 97 State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont St.

Buffalo, N. Y.—S. A. Anderson, 440 Main St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid Ave.

Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th St.

Cleveland, O.—The Smith & Feters Co., 735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643 Broadway.

Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.

New London, Conn.—Reuter's.

New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.

New York—David Clarke's Sons, 2139-2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison Ave., at 48th St.

New York—Dards, N. E. corner 44th St. and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth Ave.

New York—Thos. F. Galvin, Fifth Ave., at 46th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.

Washington, D. C.—Gude Bros., 1214 F St.

Washington, D. C.—F. H. Kramer, 915 F St., N. W.

Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

REUTER'S Members Florists
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence
ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,**CLEVELAND**

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES

Flowers or Design Work

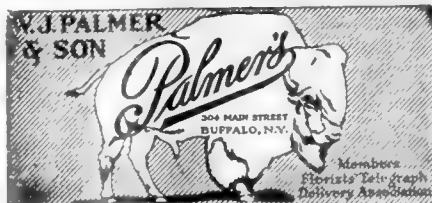
DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F.T.D. Association

OFFICERS

President, WM. F. GUDE, Gude Bros. Co., Washington, D. C.
 Vice-President, GEORGE ASMUS, Schiller Florists, Chicago, Ill.
 Treasurer, WM. L. ROCK, Wm. L. Rock Flower Co., Kansas City, Mo.
 Secretary, ALBERT POCHELON, The L. Bemb Floral Co., Detroit, Mich.

DIRECTORS

For term expiring 1917.

H. PAPWORTH, Metairie Ridge Nursery Co., New Orleans, La.
 G. E. M. STUMPP, George Stumpp, New York, N. Y.
 O. J. OLSON, Holm & Olson, St. Paul, Minn.

For term expiring 1918.

AUGUST LANGE, A. Lange, Chicago, Ill.
 FRANK D. PELICANO, Pelicano-Rossi Co., San Francisco, Cal.
 FRANK X. STUPPY, Stuppy Floral Co., St. Joseph, Mo.

For term expiring 1919.

LON. THOMSON, C. A. Dahl Co., Atlanta, Ga.
 KARL P. BAUM, Charles L. Baum, Knoxville, Tenn.
 T. J. WOLFE, Wolfe The Florist, Waco, Texas.

The Florists'

The Most Efficient Service Out-Of

Retailers Section of the Society of

Established and Conducted By and For

MEMBERS OF THE FLORISTS'

Always at Your Service for

Akron, Ohio, 49 South Main St. The Heepe Co.
 Albany, N. Y., 40 & 42 Maiden Lane. Danker, Fred A.
 Albany, N. Y., 97 State St. Gloeckner, W. C.
 Albany, N. Y. The Rosary Flower Shop
 Allentown, Pa., 913 Hamilton St. Ashley, Ernest
 Anderson, S. C. Anderson Floral Co.
 Andover, Mass. Playdon, J. H.
 Ann Arbor, Mich., 209 E. Liberty St. Flanders, Mrs. Pearl
 Ann Arbor, Mich., 1092 S. University Ave. Cousins & Hall
 Ashtabula, O., 21 Center St. Tong & Weeks Floral Co., The
 Atlanta, Ga. C. A. Dahl Co.
 Atlantic City, N. J., 1505 Pacific Ave. Berke, Geo. H.
 Atlantic City, N. J. Edwards' Floral Hall Co.
 Atlantic City, N. J., 1331 Pacific Ave.

Egg Harbor Flower Shop
 Auburn, N. Y., 140-150 Dunning Ave. Dobbs & Son
 Augusta, Ga. Stubb's Nursery
 Aurora, Ill., 18 Downer Pl. Aurora Greenhouse Co.
 Aurora, Ill. Smely, Joseph M.
 Austin, Minn. Kinsman, A. N.
 Austin, Texas, 1406 Lavaca St. Hilley's For Flowers
 Baltimore, Md., 331 N. Charles St. Samuel Feast & Sons
 Baltimore, Md., 509 N. Charles St. Pierce & Co.
 Bar Harbor, Maine, Main St. John H. Stafford
 Battle Creek, Mich., 11 W. Main St. Coggan, S. W.
 Bay City, Mich., 325 Park Ave. Boehringer Bros.
 Binghamton, N. Y., 6-10 Bigelow St. A. E. Fancher
 Binghamton, N. Y., 16 Court St. Suskana Flower Shop
 Bloomington, Ill., 318 N. Main St. Washburn, A., & Sons
 Bloomington, Ind. Morris The Florist
 Boston, Mass., 342 Boylston St. Carbone, Philip L.
 Boston, Mass., 46 Beacon St. Cassidy, John J.
 Boston, Mass., 426 Washington St. Filene's Sons Co., W.
 Boston, Mass., 124 Tremont St. Penn, Henry
 Boston, Mass., 143 Tremont St. Wax Brothers
 Bradford, Pa. Gunton, C. E.
 Bridgeport, Conn., 985 Main St. Reck & Son, John
 Bristol, Conn., 19 Maple St. Andrew Bros.
 Brookline, Mass., 220 Washington St. Palmer, F. E.
 Brooklyn, N. Y., 272 Fulton St. and 7 Clinton St.

Phillips, John V.
 Brooklyn, N. Y., 5th Ave., 25th St. Weir & Co., Inc., J. Ebb
 Bryn Mawr, Pa., 1226 Lancaster Pike. Connolly, Est. J. J.
 Buffalo, N. Y., 440 Main St. Anderson, S. A.
 Buffalo, N. Y., 301 Main St. Palmer, W. J. & Son
 Burlington, Vt., 184 Main St. Gove, Mrs. Cora E.
 Burlington, Vt., 128 Church St. Peters, W. E.
 Calgary, Alberta, Canada. Terrill, Ltd., A. M.
 Cambridge, Mass., 1730 Cambridge St.

Becker's Conservatories
 Canton, Ohio, 533 N. Market St. Geltz, Fred C.
 Cedar Falls, Iowa. Bancroft, Joseph & Sons
 Cedar Rapids, Iowa. Kramer, I. N., & Son
 Charleston, S. C., 88 Society St. Bolger, T. T.
 Charleston, S. C., 174 Tradd St. Rodgers Floral Co.
 Charleston, W. Va., 19 Capitol St.

Charleston Cut Flower & Plant Co.
 Charleston, W. Va., 811 Quarrier St.

Winter Floral Co., H. F. Winter
 Charlotte, N. C., 306 N. Tryon St. Scholtz, The Florist, Inc.
 Chicago, Ill., 57 E. Monroe St. Bohannon Floral Co.
 Chicago, Ill., 25 E. Madison St. Lange, A.
 Chicago, Ill., 851 N. State St. Neiglick, Chas. T.
 Chicago, Ill., 2132-2134 Michigan Ave. Samuelson
 Chicago, Ill., 2221 W. Madison and 4509 Broadway

Schiller, The Florist
 Chicago, Ill., 31st and Michigan Ave. Smyth, W. J.
 Chicago, Ill., 22 E. Elm St. Wienhoeber Co., Ernst
 Cincinnati, O., 138 E. 4th St. Baer, Julius
 Cincinnati, O., 128 W. 4th St. Porter, Edward A.
 Cincinnati, O., 150 E. 4th St. Hardesty, T. W., & Co.

Cincinnati, O., 532 Race St. Hill Floral Co., E. G.
 Cleveland, O., 1006 Euclid Ave. Gasser Co., J. M.
 Cleveland, O., 5323 Euclid Ave. Graham, A., & Son
 Cleveland, O., 1284 & 1308 Euclid Ave. Jones-Russell Co.
 Cleveland, O., 1836 W. 25th St. Knobbe Bros.
 Colorado Springs, Colo. Crump, Frank E.
 Colorado Springs, Colo. Pikes Peak Floral Co.
 Columbus, O., 1335 Fair Ave. Franklin Park Floral Co.
 Corsicana, Texas. Holm, Alfred
 Council Bluffs, Ia., 321 Broadway. Wilcox, J. F., & Sons
 Dallas, Tex., Ross and Masten Ave.

Dallas Floral Co., Henry F. Greve
 Danville, Ill. Smith, F. B., & Sons
 Dayton, O., 112 S. Main St. Heiss Company
 Deleance, O., 1119 Jefferson Ave. Winterich, Christ
 Denver, Colo., 1613 Broadway. The Park Floral Co.
 Des Moines, Iowa, 521 E. Locust St. Lozier, The Florist
 Des Moines, Ia. Wilson Floral Co., J. S.
 Detroit, Mich., 153 Bates St. Bemb Floral Co., The L.
 Detroit, Mich., Gratiot Ave. & Broadway.

Breitmeyer's Sons, John
 Detroit, Mich., 237 Woodward Ave. Fettes, Edward A.
 Detroit, Mich., Newland & Gratiot Aves. Plumb, Chas. H.
 Detroit, Mich., 604 E. Fort St. Scribner Floral Co.
 Detroit, Mich., 95 Gratiot & 450 Elmwood Aves.

Taepke, Gust. H., Co.
 Dubuque, Ia. Harkett's Floral Co.
 Duluth, Minn., 121 Superior St. Duluth Floral Co.
 Eau Claire, Wis. Lauritzen
 Edwardsville, Ill., 1308 St. Louis St. Ammann Co., J. F.
 Elizabeth, N. J., 1169 E. Jersey St. Leahy, Henry
 El Paso, Tex., Mills Bldg. Potter Floral Co.
 Elyria, O., 333 E. Broad St. Heacock Floral Co., The
 Erie, Pa., 704 State St. Laver, John V.
 Erie, Pa., 924 Peach St. Miller, Miles R.
 Evanston, Ill., 614 Dempster St. Fisher Bros.
 Evanston, Ill., 692 Davis St. Welland, M.
 Evansville, Ind., 522 Main St. Blackman Floral Co., Wm.
 Exeter, N. H., 33 Lincoln St. Perkins, John R.
 Fairbury, Neb. Hurlburt, C.
 Fargo, N. D. Smedley & Co.

Fayetteville, Ark., 18 W. Center St. Southwestern Seed Co.
 Florence, S. C., Palmetto Nurseries. De Witt House
 Flushing, N. Y., 2 Jamaica Ave. Frick, Geo. J.
 Fond du Lac, Wis., 411 Linden St. Haentze Co.
 Fort Collins, Colo. Espelin & Warren
 Fort Morgan, Colo. Morgan Floral Co.
 Fort Worth, Tex., 1013 Houston St. Baker Bros. Co.
 Fort Worth, Tex. McAdam, J. E.
 Framingham, Mass., 37 Main St. Goddard, S. J.
 Freeport, Ill., 104 Chicago St. Bauscher, John
 Galesburg, Ill. Pillsbury, I. L.
 Grand Rapids, Mich., 60 Monroe Ave. Cross, Eli
 Grand Rapids, Mich., Ashton Bldg. Hartnett, Mary
 Grand Rapids, Mich., Monroe & Division Aves.

Smith, Henry
 Greenfield, Mass. Richards, E. A.
 Greensboro, N. C., 115 So. Elm St. Van Lindley Co.
 Greensburg, Pa., 200 N. Main St. Thomas, Joseph
 Guthrie, Okla., 208 E. Oklahoma St. Furrow & Co.
 Hackettstown, N. J., 104 Center St. Herrick, Alonzo D.
 Hamilton, Ont., Can., 69 E. King St.

Connon Co., Ltd., John
 Harrisburg, Pa., 121 N. 3rd St. Ridenour, F. E.
 Harrisburg, Pa., 313 Market St. Schmidt, Charles
 Hartford, Conn. Coombs, John F.
 Hartford, Conn., 213 Asylum St. Spear & McManus
 Hartford, Conn., 180 Asylum St. Welch, The Florist
 Helena, Ark. Ball, Harry
 Highland Park, Ill. Highland Park Greenhouses
 Hoboken, N. J., 113 Hudson St. Grulich, J., & Sons

Hornell, N. Y.
 Houston, Tex., Main
 Houston, Tex., 721
 Indianapolis, Ind.,

Indianapolis, Ind., 2

Indianapolis, Ind., 1

Jacksonville, Fla., 3

Janesville, Wis.

Joliet, Ill., Hobbs 1

Kalamazoo, Mich., 1

Kankakee, Ill., 162

Kansas City, Kan.,

Kansas City, Mo., 1

Kansas City, Mo., 11

Kingston, N. Y., 18

Knoxville, Tenn., "E"

Knoxville, Tenn., 52

Kenosha, Wis.

Kokomo, Ind.

La Crosse, Wis.

La Crosse, Wis.

Lafayette, Ind.

Lake Forest, Ill.

Lansing, Mich., 105

Lansing, Mich., 624

Lawrence, Mass., 17

Lebanon, Pa., 335 G

Lexington, Ky., 160

Lexington, Ky., 123

Lima, O., 207 W. M

Lincoln, Neb., 1338 O

Little Rock, Ark., 5

London, Ont., 235 D

London, Ont., Canada

Long Branch, N. J.,

Long Island, James

Los Angeles, Cal., 2

Louisville, Ky., Mas

Louisville, Ky., 550 B

Louisville, Ky., 312

Lowell, Mass., 8 Me

Lynchburg, Va., 101

Lynn, Mass., 884 We

Macon, Ga.

Madison, Wis., 1301

Mankato, Minn.

Mansfield, O.

Mentor, Ohio.

Michigan City, Ind.,

Milwaukee, Wis., 384

Milwaukee, Wis., 419

Milwaukee, Wis., 437

Minneapolis, Minn., 2

Minneapolis, Minn., 3

Minot, N. D.

Mobile, Ala.

Montclair, N. J., 416

Montgomery, Ala., 11

Montreal, Can., St. C

Mt. Clemens, Mich.,

Mt. Vernon, N. Y., 2

Nashua, N. H.

Nashville, Tenn.

Newark, O.

WHY NOT add your firm to this representation of Retail Florists of the United States and Canada

We desire your presence at the meeting called in Chicago, October 11th and 12th, at 9 A. M. flowers last year. This is going to be a record-breaking meeting of the Retail Trade of this country.

graph Delivery

Telegraph, Mail-order or
Delivery

Florists and Ornamental Horticulturists

Florists of the United States and Canada

GRAPH DELIVERY ASSOCIATION

of Town Telegraph Orders

Wettlin Floral Co.
Sts. Kerr, R. C.
Boyle & Pendervis
s Ave.,
Bertermann Bros. Co.
na St.,
Hill Floral Co., E. G.
ois St.,
Weigand's Sons Co., A.
ve,
Mills, The Florist, Inc.
Janessville Floral Co.
Labo, Margaret C.
Van Bochove & Bro.
St. Faber, George
g Aves., Fields, L. C.
Murray, Samuel
W. L. Rock Flower Co.
Valentine Burgevin, Inc.
Baum, Chas. L.
Crouch, Charles W.
Turner & Sons, V.
Coles Flower Shop
La Crosse Floral Co.
izer Seed Co., John A.
Borner, F., & Sons Co.
Calvert Floral Co.
Ave. Alpha Floral Co.
Bissinger, John A.
Campbell, W. C.
Vavrou's Sons, J. F.
Honaker, The Florist
Keller Co., John A.
Zettlitz, Eggert N.
Frey & Frey
Tipton & Hurst
Dick's Flower Shop
Gammage, J., & Sons
Eisele, W. G.
Elklawn Greenhouses
Redondo Floral Co.
Baumer, August R.
Schulz, Jacob, Co.
Walker, F. Co.
Morse & Beals
McCarroll, Miss Julia
Miller, Wm., & Sons
Idle Hour Nurseries
Rentschler Floral Co.
Windmiller Co., The
Mansfield Floral Co.
Merkel, C., & Sons
Reicher, August
Currie Bros. Co.
Edlefsen-Leidiger Co.
Fox, J. M. & Son
McKenney & Co., M. A.
St. Maze, The Florist
32 Nicollet Ave.,
Whitted Floral Co.
Walker's Greenhouse
The Minge Floral Co.
Massmann, F. W.
Rosemont Gardens
y Sts., McKenna, Ltd.
Von Boesclager, August
Dummett, Arthur
Buxton, Geo. E.
Joy Floral Co.
Duerr, Chas. A.

New Bedford, Mass. Murray, The Florist
Newburgh, N. Y., 91 Water St. Yuess Gardens Co.
New Castle, Pa., North Mercer St. Butz Bros.
New Haven, Conn., 1026 Chapel St., Champion & Co., J. N.
New London, Conn. Reuter's
New Orleans, La., 3442 St. Charles St. Avenue Floral Co.
New Orleans, La., 121 Baronne St. Eble, Charles
New Orleans, La., Metairie Ridge Nursery Co.,
Harry Papworth, Pres.
Newton, Mass., 329 Newtonville Ave. Newton Rose Cons.
Newton, Mass., 406 Center St. The Florist Shop
New York, N. Y., 2366 Broadway. Brown, Charles H.
New York, N. Y., 413 Madison Ave. Bunyard, Alfred T.
New York, N. Y., 44th St. & Madison Ave. Dards, Chas. A.
New York, 2953 Broadway. Drakos & Co.
New York, N. Y., Hotel Biltmore. Heaton, Fred R.
New York, N. Y., 136 Madison Ave. Kottmiller, A.
New York, N. Y., Madison Ave. at 55th St. Leikens, J. G.
New York, N. Y., 503 Fifth Ave. McKenney, Peter F.
New York, N. Y., 611 Madison Ave. Myer, The Florist
New York, N. Y., 619 Fifth Ave. Siebrecht Bros., Inc.
New York, N. Y., 21 W. 59th St. Schling, Max
New York, N. Y., 505 Madison Ave. J. H. Small & Sons
New York, N. Y., 761 Fifth Ave. Stumpp, G. E. M.
New York, N. Y., 1193 Broadway. Warendorff, Alex.
New York, N. Y., 42 W. 28th St. Young & Nugent
Norfolk, Va., 369 Granby St. Grandy, The Florist
North East, Pa., 49 S. Pearl St. Selkregg, F. E.
Northampton, Mass. Butler & Ullman
Norwich, Conn. Reuter's
Norwich, Conn., 77 Cedar St. Geduldig Greenhouse
Oakland, Md. H. Weber & Sons Co.
Ogdensburg, N. Y., 53 Ford St. Lawrence, John
Oklahoma City, Okla., 120 W. Main St.,
Furrow & Co.; Lon Foster, Mgr.
Oklahoma City, Okla. Stiles Co., The
Omaha, Neb., 1519 Farnam St. Henderson, Lewis
Omaha, Neb. Hess & Swoboda
Oswego, N. Y., 61 W. Bridge St. Workman, W. H.
Owosso, Mich. Owosso Floral Co., Thiemann, Hermann
Palm Beach, Fla., Hotel Royal Poinciana. Foster & Foster
Parkersburg, W. Va. Dudley & Sons, J. W.
Pasadena, Cal., 13 East Colorado St. The Orchid
Passaic, N. J., Main and Bloomfield Aves. Seery, Ed.
Paterson, N. J., 85 Broadway. Seery, Edward
Paterson, N. J., 88 Van Houten Ave. Thurston, Wm.
Peoria, Ill., 127 S. Jefferson St. Loveridge, Charles
Philadelphia, Pa., 221 Broad St. Fox, Charles Henry
Philadelphia, Pa., Bellevue Stratford Hotel.
Habermehl's Sons, J. J.
Philadelphia, Pa., 1800 Chestnut St. London Flower Shop
Philadelphia, Pa., 1514 Chestnut St. Penneck Bros.
Phoenix, Ariz., Cretus Way & Washington St.,
Donofrio's Floral Dept.
Piqua, Ohio, 1521 Washington St. Gerlach, The Florist
Pittsburgh, Pa., North Side, 710 E. Diamond St.,
Ludwig Floral Co. (E. C.)
Pittsburgh, Pa., 5936 Penn Ave. Randolph & McClements
Pittsburgh, Pa., Keenan Bldg. Smith Co., A. W.
Pittsfield, Mass., 40 Penn St. The Flower Shop
Portland, Ore., 21st & Market Sts. Tonseth Floral Co.
Pottsville, Pa., 21st & Market Sts. Payne, W. Guy
Poughkeepsie, N. Y. Saltford Flower Shop
Providence, R. I., 38 Dorrance St. Johnston Bros.
Quincy, Ill. Gentemann Floral Co.
Racine, Wis., 504 Wisconsin St. Hinchcliffe, Mrs. J. T.
Reading, Pa., 123 So. 5th St. Giles, J. H.
Red Bank, N. J., 5 Front St. Kennedy, W. W., & Son
Richmond, Ind., 1015 Main St. Lemon, Fred H., & Co.
Richmond, Va., 109 F. Broad St. Hammond Co., Inc.
Rochester, Minn., 119 So. Main St. Rochester Floral Co.

MEMBERSHIP FEE \$5.00

ANNUAL DUES

Cities less than 5,000 popu-
lation \$2.00
5,000 to 200,000 4.00
200,000 population and over 10.00

Mutual Discount 20% 1.
Accounts Guaranteed by the
Association.

Membership open to All Retail
Florists who are members of the
S. A. F. and O. H.

PAYMENT INTO TRUSTEE FUND

Cities population less than

5,000 \$1.00
6,000 to 25,000 2.50
25,000 to 50,000 5.00
50,000 to 100,000 10.00
100,000 to 150,000 15.00

Above that \$1.00 for each addi-
tional 10,000 population up to
500,000.

Cities more than 500,000 \$50.00
The above fund is only for the
guarantee of accounts and will be
returned when membership is
withdrawn.

Rochester, N. Y., 25 Clinton Ave. Keller & Sons
Rochester, N. Y., 88 Main St. Wilson, H. E.
Rockford, Ill. Buckbee, H. W.
Rockville Center, N. Y. Ankers, Clarence R.
Rugby, N. D. Rugby Greenhouse, N. P. Lindberg, Prop.
Saginaw, Mich., 511 Genesee St. Fruch, Chas., & Sons
Saginaw, Mich., 117 S. Jefferson Ave. Grohman, The Florist
Salina, Kan., 407 E. Iron Ave. Leighton Floral Co.
Salt Lake City, Utah, 62 S. Main St. Huddart Floral Co.
San Diego, Cal., 412 East C St. Boyle & Durnad
Sandusky, O., 632 Columbus Ave.
Wagner Greenhouses, Leo Wagner, Prop.
San Francisco, Cal., 255 Powell St. Art Floral Co.
San Francisco, Cal., 233-235 Grant Ave. Joseph, B. M.
San Francisco, Cal., 111 Powell St. MacRorie-McLaren Co.
San Francisco, Cal., 123-125 Kearny St.,
Pelicano, Rossi & Co.
Saratoga Springs, N. Y. Ralph's Greenhouses, John
Savannah, Ga. Oelschig, A. C., & Sons
Scranton, Pa., 118 Adams Ave. Baldwin, The Florist
Scranton, Pa. Clark, G. R.
Seattle, Wash., 1534 Second Ave. Hollywood Gardens
Sedalia, Mo. Archias Floral Co.
Sheboygan, Wis., 625 N. 8th St. Matthewson, J. E.
Sherman, Texas. Texas Nursery Co.
Sioux City, Ia. Rennison, J. C. Company
Sioux City, Ia., 402 4th St. Rocklin & Lehman
South Bend, Ind., 138 So. Michigan St. Williams & Co.
Southampton, Long Island, N. Y. G. E. M. Stumpp
Spokane, Wash., 11 Post St. Hoyt Bros. Co.
Spokane, Wash., 722 Riverside Ave. Spokane Florist Co., Inc.
Springfield, Mass., 484 Main St. Aitken, Mark
St. Joseph, Mo. Stuppy Floral Co.
St. Louis, Mo., 7th & Washington Ave. Grimm & Gorly
St. Louis, Mo., 7041 Florissant Ave. Meinhardt, F. A.
St. Louis, Mo. Scruggs-Vandervoort & Barney Co.
St. Louis, Mo., 4326-28 Olive St. Weber, Fred C.
St. Louis, Mo., Boyle and Maryland Aves. Weber, F. H.
St. Paul, Minn., 21 W. 5th St. Holm & Olson
Steubenville, Ohio, 173 N. 4th St. Huseroff's Flower Shop
Summit, N. J., 5 Sayre St. Macdonald, M.
Syrause, N. Y., 342 S. Warren St. Day, W. E. Co.
Tarrytown, N. Y. McCord, Wm. F. Co.
Tarrytown, N. Y. Pierson Co., F. R.
Terre Haute, Ind., 139 S. 7th St. Heisl, John G., & Son
Toledo, O., 336 Superior St. Freeman, Mrs. J. B.
Toledo, O., 1307-1315 Cherry St. Schramm Bros.
Toledo, O., 2941-3001 Cherry St. Suder, Mrs. E.
Topeka, Kan., 142 W. 8th Ave. Mrs. Lord's Flower Room
Toronto, Ont., 123 King St. W. Dillemath, The Florist
Toronto, Ont., 348 Yonge St. Simmons & Son
Tucson, Arizona. Howe Brothers
Tuscaloosa, Ala., 2939 18th St.,
Magnolia Conservatories, Alston, Mrs. H.
Urbana, Ohio, 203 Bloomfield Ave. Carey, S. W.
Utica, N. Y., 59 Cornelia St. Baker & Son, C. F.
Vincennes, Ind., 614 West 1st St. Schultz, Paul C.
Waco, Texas. Wolfe, The Florist
Washington, D. C., 1214 F St., N. W. Gude Bros. Co.
Washington, D. C., 15th & H Sts. Small, J. H., & Sons
Wellesley, Mass. The Wellesley Florist, Talbly, J., & Son
Wheeling, W. Va. Langhans, Arthur
Wichita, Kan., 145 N. Main St. Mueller, Chas. P.
Williamsport, Pa. Evenden Bros.
Winnipeg, Manitoba, 289 Donald St. The Rosary
Worcester, Mass., 371-73 Main St. Lange, H. F. A.
Worcester, Mass., 3 Pleasant St. Randall's Flower Shop
Youngstown, O., 15 North Phelps St. Kay-Diamond Co.
Zanesville, O., 54 N. 5th St. The Inlay Company

HELP

to develop this field of the Retail Florists' business
still more as you will gain by it

the LaSalle Hotel. Our organization was instrumental in the selling of five million dollars worth of
every phase of the business will be discussed. For information and particulars write to

ALBERT POCHELON, Secretary The Florists' Telegraph Delivery, Detroit, Mich.

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

The street carnivals are under way in various parts of the city. They are a stimulus to trade and retail florists are doing their part.

California chrysanthemums are arriving in a satisfactory condition according to some who are handling them and certainly they look fine after their long journey. They are grown in cloth-covered houses and are of the large varieties.

The Pot Plant Situation.

The plant situation in Chicago is not relieving that of the flowers. A few plants of the Celestial peppers lend a little color but these are still too undeveloped to be at their best. While there have been some chrysanthemums for cut flowers it will be a week or so more before the varieties used for pot plants will be out enough to make effective decorations. There are really no blooming plants to offer at this time. Boston ferns have been scarce all summer but the new crop will soon be in which will relieve the situation there. There has been and still is, a good supply of *Dracaena fragrans* and *Massangeana* in small sizes, but large sizes for special decorations have been scarce all summer. Palms thus far have been in good supply but if the same difficulties develop in the Belgium supply as now threaten in azaleas, the outlook will be for future shortage.

The Marshall Field Opening.

The opening of the fall season at Marshall Field's called for the use of thousands of Boston ferns, large palms and cut flowers, the market value of which would mean a year's salary to most men. In addition to these were the artificial ferns in beautiful autumn colorings, and chrysanthemums, which a casual inspection might class as natural. The arrangement of these and the blending of colors, as from the red brown of the ferns up to the yellow of the chrysanthemums made the bouquets, although artificial, an object lesson worth while. Festoons of vines outline the broad main aisle and overhead in the center room are four chariots, suggesting the assembling of goods from the four corners of the earth. These decorations are planned six months in advance and a large force of men and women are constantly working to that end. Mr. Fraser in charge travels everywhere for ideas. Frank Oeschlin's stock of specimen palms was heavily drawn upon for this notable event.

WASHINGTON, D. C.

As examination will be held by the Civil Service Commission on October 17, to fill a vacancy in the position of gardener at Tulalip, Wash., which carries with it a salary of \$720 a year.

It is reported that Mrs. Teresa J. Philipps, who operates The Flower Store at 2820 Fourteenth street, N. W., is to open a branch under the same

name at 134 West King street, in Martinsburg, W. Va. The local business will be looked after by Jack Philipps.

A number of representative business men of Washington have recently formed what is known as the Optimum Club which takes one member from each line of endeavor. Among the first members selected was George C. Shaffer, who will represent the florist industry.

George C. Shaffer has increased his store force by the addition of Miss Fay West and the return of Mrs. Nettie Supper. The former was at one time with the DuPont Flower Shop and also with the Washington Floral Co. The latter has been away from the store for several months.

W. F. Gude was chairman of the judges at the eighth annual flower show of the Brookland Brotherhood. Associated with him were F. L. Mulford, of the Dept. of Agriculture, and Mrs. L. Helen Fowler, manager of the Shaw Gardens. Mr. Gude served in a like capacity during the Petworth Flower Show, with George W. Hess and Mr. Gaylord.

David A. Bisset met with a very narrow escape from death in an automobile accident last Thursday while driving his car in which Mrs. Peter Bisset and Marie, Helen and Paul Bisset were also passengers. The car was overturned after having struck a piece of timber which had been dropped by one of the laborers employed in some street work. The entire party was taken to the Emergency Hospital by a passing automobilist. They were badly shaken up and suffered some few slight injuries.

A visit was made on Tuesday of last week to the rose gardens in Arlington Farms by Robert Pyle and Antoine Wintzer, representing the American Rose Society, and Prof. F. L. Mulford and Dr. Walter Van Fleet, of the Dept. of Agriculture. This trip was in lieu of the regular fall inspection by the members of the Society, for it was found that it would be impossible to get any large number of members together for a visit to Washington at this time.

In future the attempt will be made to keep the new roses pretty well together instead of planting them with the older roses. Each year's additions are to be kept together and only put with the older roses after having been in the garden for a year. It is deemed desirable to get the color combinations good when the plants are permanently placed; and, also, that only the vigorous growing plants are given permanent places. Nearly two hours was spent in the garden, following which a visit was made to the U. S. Botanic Gardens and other places. It has practically been decided upon to make an official visit in the spring when more members can be gotten together.

BOSTON.

Albert Stumph startled the other members of the Bowling League by bowling three record-breaking strings last Wednesday night. The scores were 124, 136, 112.

A local high-water mark for lilies was set this week when the blooms in some instances commanded a price of fifteen cents. This high-wire performance was due to an unusually strong clamor for lilies, with barely enough available to supply even an ordinary market.

Popular "Steve" Green, fresh from Bayersdorfer & Co.'s warehouse has camped in Boston for the week with a line of new fall samples that are catching the attention of the early morning visitors in the flower market district. He is displaying these in the headquarters of the Waban Rose Conservatories in Winthrop square.

Henry R. Comley was elected president of the Boston Retail Florists' Club on Oct. 4. Other officers were chosen as follows: Vice-president, Samuel Wax; treasurer, Julius A. Zinn; secretary, Harry Quint; directors, Henry Penn, chairman; Nathan Silverman, Henry Comley, Julius A. Zinn, Martin Tuohy and Martin Wax.

The Boston Flower Exchange, Inc., is to hold its annual business meeting at Young's Hotel on Saturday, Oct. 28. A dividend of 20 per cent. will be declared and the usual business proceedings will then follow. After the meeting a banquet and entertainment will be in order, and as the committee consists of S. J. Goddard and George Cartwright, those present may be sure of enjoying themselves.

At the meeting of the Horticultural Club of Boston on October 4, E. H. Wilson entertained the members and guests with an elaborate stereopticon lecture on the plants of China. Among the guests present were George E. Barnard, Ipswich, Mass.; J. J. Karins, Philadelphia; W. W. Castle, E. Weymouth, Mass.; Leonard Barron, Garden City, N. Y., and H. J. Patten, Tewksbury, Mass. Resolutions of respect to the memory of Jackson Thornton Dawson are recorded. W. A. Manda decorated the table with large vases of his dahlia novelties.

A series of garden lectures has been arranged by the Women's Educational and Industrial Union for six consecutive Monday afternoons at 4 o'clock at 264 Boylston street, beginning Oct. 9. Miss Jane B. Patten, special instructor in Botany and horticulture at Simmons College, will give the first four talks, which will cover the subjects of outdoor and indoor bulbs, the autumn garden and house plants. The fifth lecture will be given by Fletcher Steele, assistant in landscape architecture, Harvard College, who will speak on the "Intimate Fine Art of Garden Design." F. Schuyler Mathews, author of many books on birds and flowers, will give a talk on birds and their music in garden and forest.

BASKETS BASKETS BASKETS

BUY YOUR FALL SUPPLIES NOW

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Hampers and Flower Bowls

Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

PHILADELPHIA.

Martin Gannon, late with the Leo Niessen Co. started Oct. 2nd with Alfred M. Campbell as manager of the commission department at 1519 Sansom street.

Whetstone & Co., pipe experts, well known among the greenhouse men from their elucidations before the Florists' Club years back have been succeeded by E. W. Koons & Co. at 911 Filbert street, who continue in the same line.

S. S. Pennock and family arrived home from a month's vacation in Rhode Island on Sept. 28th. Mr. Pennock reports that nothing has been heard of Mr. Rankin, who disappeared from his home in Westerly, R. I., Sept. 12, and that the greenhouses consisting of about twenty-five thousand feet and stocked with roses are for sale or rent on very favorable terms. The agents for the property are The Washington Trust Co., Westerly, R. I., and Mr. Pennock.

On Saturday afternoon and evening, Oct. 7, there will be a flower show at the Twentieth Century Club House, Lansdowne—free to the public. It promises to be one of the best of the suburban exhibitions which are doing so much for the advancement of horticulture. Samuel S. Pennock is the president of the Flower Exhibition and he wants as many of his florist friends from outside points as possible to honor the show with a visit. Twenty minutes out from Broad Street Station.

CLEVELAND.

Market conditions remain very tight, there being hardly enough stock available to supply the demand.

Retail florists, who will attend the meeting of The Florists' Telegraph Delivery at Chicago this month, include F. C. W. Brown and H. P. Knoble.

Herb. Bate and Frank Williams, of The Cleveland Cut Flower Co. and Al. Barber of The Jones-Russell Co., will return home this week from a trip up the lakes.

F. J. RITZENTHALER.

Obituary

Reinhardt Cook.

Reinhardt Cook, a well known retail florist of New Orleans, La., died on September 19, at the age of 38 years. His demise while so comparatively young is a shock to his many friends in the trade by whom he was held in loving esteem. He leaves a widow.

Henry Kirke White.

Henry Kirke White, vice-president of the seed firm of D. M. Ferry & Co., Detroit, Mich., died suddenly of heart disease Sept. 23, aged 77 years. Mr. White was born in Unadilla, N. Y. In 1865, he was admitted to the firm, and in 1905 was made vice-president. He is survived by his wife, one daughter and three sons.

Edward Mawley.

We learn from the English journals of the death suddenly on September 14 of Edward Mawley, V. M. H., president of the National Rose Society. Mr. Mawley was seventy-four years of age. He was elected president of the National Rose Society two years ago after serving faithfully as secretary for thirty-seven years. He was a man greatly beloved by his associates. The phenomenal progress of the National Rose Society was in a large measure due to his ability and zeal.

Charles M. Griffing.

In the death of Charles M. Griffing, of the Interstate Nurseries, Macclenny, Florida, the horticultural interests of the state have sustained a severe loss. Mr. Griffing's departure came as a severe shock to his friends, as he was in the prime of life and had been in good health until a few weeks before the end.

Coming to Florida from New York State in early boyhood Mr. Griffing had made for himself an enviable place

in the business life of the state by his industry and honesty. As a member of the State Horticultural Society, the Florida Nurserymen's Association, an active member of the American Association of Nurserymen and of other national horticultural organizations, he was well and favorably known, and in Jacksonville his connection with the Chamber of Commerce and the First Christian Church brought him into close relations with the many phases of work for the upbuilding of the city, in all of which he was deeply interested.

For years Mr. Griffing has been a consistent advocate of diversified agriculture and horticulture. Along this line he had contributed a number of articles to the farm press of the South. At the time his last illness came on he was engaged in the preparation of additional material of this nature, under arrangements which would have given it very wide circulation. The deceased left an aged father, one sister, four brothers, a wife and several children, to whom has been extended the sympathy of a wide circle of friends and acquaintances.

SETTLEMENT OF CLAIMS FOR DAMAGED MAIL

It is expected that as a result of the action taken by Assistant Postmaster General Dockery those florists having claims against the Post Office Department growing out of the loss or damage of insured and C. O. D. mail will have less cause for complaint over apparent unnecessary delays in arriving at a settlement. Mr. Dockery says that examination of applications for indemnity in such cases shows that in a great many instances postmasters are not complying with the provisions of the Postal Guide requiring immediate attention to indemnity claims and to all inquiries received from the department in regard thereto. Employees handling claims are instructed to familiarize themselves with these provisions, and see to it that all documents and required information are complete before sending the claims for final settlement.

FOUR ITEMS

We will be strong on for this week

DAHLIAS
CATTLEYS VALLEY
BEAUTIES

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S
Wholesale & Commission Florists
FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

EDWARD REID
WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER
 122 West 25th St., New York
Florists' Supplies

We manufacture all our
 Metal Designs, Baskets, Wire Work & Novelties
 and are dealers in
 Decorative Glassware, Growers and
 Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.**E.G.HILL CO.**

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER
EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 3860 Madison Square

WOODROW & MARKETOS

WHOLESALE

Plantsmen and Florists

37 and 39 West 28th St., NEW YORK

**POEHLMANN BROS. CO.**

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut
 Flower Market

Daily consignments from
leading growersFull line of Florists'
SuppliesWrite for quotations before
ordering elsewhere

226 DEVONSHIRE ST.,
Telephone, Main 6267-6268

BOSTON, MASS.**WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY**

	BOSTON October 5		ST. LOUIS September 19		PHILA. October 2	
Roses						
Am. Beauty, Special	25.00	to 35.00	15.00	to 25.00	25.00	to 30.00
" " Fancy and Extra	15.00	to 20.00	8.00	to 10.00	12.00	to 20.00
" " No. 1 and culls	3.00	to 8.00	1.00	to 5.00	6.00	to 10.00
Russell, Hadley	2.00	to 12.00	5.00	to 10.00	4.00	to 15.00
Killarney, Hillingdon, Ward, Extra	4.00	to 8.00	5.00	to 8.00	4.00	to 8.00
" " Ordinary	1.00	to 2.00	3.00	to 4.00	2.00	to 4.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 8.00	.....	to	4.00	to 10.00
" " Ordinary	1.00	to 2.00	.....	to	2.00	to 4.00
Ophelia, Mock, Sunburst, Euler, Extra	3.00	to 8.00	5.00	to 8.00	6.00	to 10.00
" " Ordinary	1.00	to 2.00	2.00	to 3.00	3.00	to 5.00
Carnations	2.00	to 3.00	2.00	to 3.00	1.50	to 3.00
Cattleyas	30.00	to 40.00	30.00	to 40.00	40.00	to 60.00
Dendrobium formosum	.....	to 30.00	.....	to .....	.....	to
Lilies	8.00	to 12.00	10.00	to 12.50	10.00	to 12.00
Lily of the Valley	4.00	to 6.00	4.00	to 5.00	3.00	to 6.00
Snapdragon	.50	to 1.00	3.00	to 4.00	1.00	to 2.00
Gladioli	1.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Chrysanthemums	10.00	to 20.00	.....	to	10.00	to 20.00
Dahlias	1.00	to 2.00	1.00	to 2.00	1.00	to 3.00
Gardenias	20.00	to 25.00	.....	to	20.00	to 30.00
Adiantum	.....	to 1.00	1.00	to 1.25	.....	to 1.00
Smilax	12.00	to 20.00	12.00	to 15.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	20.00	to 35.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co.
Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

J.A.BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
 CARNATIONS
 A Specialty

WHOLESALE
 GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

BOSTON The shortage of stock that was noted last week has moderated and is felt in a reduced degree and only in the case of certain specialties. Carnations are still very few and they are not of champion quality. Roses have eased up quite a little but prices are in the main still fairly good. The week's sales of American Beauties have been a little above the average price for the season. Gladioli continue to enjoy a strong call with a good supply still in evidence. Lilies have held up well in price. Asters still persist in coming in but are decidedly poor. No large shipments of chrysanthemums have materialized thus far and there are barely enough of them to go around. Lily of the valley is again in short supply.

BUFFALO Business keeps up at a good pace and at times not enough stock can be had. Weddings have kept the white rose growers busy and made a lively call for lily of the valley. The finest Shawyer, Sunburst, Ophelia, Killarney and White Killarney are coming into the market and prices are quite satisfactory throughout. Of course there is still outdoor stock such as asters, marigolds, gladioli, cosmos, etc., although heavy frosts on Friday and Saturday last ended a good portion of this material. Lilies are good and enough are to be had. Dahlias are yet coming in but are not plentiful and have sold at good prices.

CHICAGO The only flowers coming into this market that can be said to be here in quantity are roses and so great is the demand, both local and outside, that there are not enough to go round. The shortage is so general that shipping trade cuts heavily into this market's receipts. Orders are cut in a large proportion of cases and effort is made to divide up as carefully as possible. Chrysanthemums, usually in full swing at this time, are only starting. Carnations for some reason are coming on slowly and stems remain short, even when flower is of fair size. Lilies are very scarce and there are not enough lily of the valley to meet demand. American Beauties are good and a good many are being cut, but not enough to fill orders. Orchids are away up in price owing to scarcity. As one grower remarked "nothing seems to go ahead" and while plants look good, buds do not open fast enough for the trade. Extra demands have been made upon smilax which have placed that favorite green in the scarce class also. Asparagus sprays are plentiful and are mostly from the south.

NEW YORK The progress of the season has its influence on the product coming into this market as well as upon its disposal. Roses show the direct healthy results of the clear,



October Weddings

For the extra demand this month we will be able to take care of our customers in fine shape, with a splendid grade of Valley in quantity, at \$5 and \$6 per 100.

CATTLEYAS

\$6.00 per dozen

DAHLIAS

In original boxes, the choicer varieties

\$3 and \$4 per 100

S. S. PENNOCK-MEEHAN CO.



THE Wholesale Florists of PHILADELPHIA

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI October 2		CHICAGO October 2		BUFFALO October 2		PITTSBURG October 2	
Roses								
Am. Beauty, Special.....	25.00	to 30.00	25.00	to 30.00	20.00	to 25.00	25.00	to 35.00
" " Fancy and Extra.....	15.00	to 20.00	19.00	to 20.00	12.00	to 15.00	15.00	to 20.00
" " No. 1 and culls.....	5.00	to 10.00	5.00	to 10.00	4.00	to 10.00	6.00	to 12.00
Russell, Hadley.....	6.00	to 10.00	4.00	to 20.00	.....	to	4.00	to 10.00
Killarney, Hillingdon, Ward, Extra	6.00	to 8.00	6.00	to 10.00	6.00	to 8.00	8.00	to 10.00
Ord.	3.00	to 5.00	3.00	to 5.00	3.00	to 4.00	4.00	to 6.00
Arenburg, Radiance, Taft, Key, Ex.	6.00	to 8.00	.....	to	8.00	to 10.00	8.00	to 10.00
Ord.	3.00	to 5.00	.....	to	3.00	to 4.00	4.00	to 6.00
Ophelia, Mock, Sunburst, Euler, Ex	6.00	to 8.00	6.00	to 10.00	6.00	to 8.00	8.00	to 12.00
Ord.	3.00	to 5.00	3.00	to 5.00	3.00	to 5.00	4.00	to 6.00
Carnations.....	4.00	to 3.00	1.00	to 2.00	.....	to	3.00	to 4.00
Cattleyas.....	50.00	to 75.00	50.00	to 75.00	50.00	to 60.00	50.00	to 75.00
Dendrobium formosum.....	.....	to .....	.....	to .....	.....	to .....	.....	to 40.00
Lilies.....	10.00	to 12.00	10.00	to 12.00	8.00	to 12.00	10.00	to 18.00
Lily of the Valley.....	6.00	to 7.00	3.00	to 6.00	4.00	to 6.00	6.00	to 8.00
Snagdragon.....	2.00	to 4.00	.....	to	3.00	to 6.00	4.00	to 6.00
Gladioli.....	3.00	to 4.00	.....	to	2.00	to 4.00	4.00	to 6.00
Chrysanthemums.....	20.00	to 35.00	15.00	to 25.00	15.00	to 20.00	15.00	to 25.00
Dahlias.....	3.00	to 5.00	.....	to	2.00	to 4.00	4.00	to 8.00
Gardenias.....	.....	to .....	.....	to .....	.....	to .....	.....	to
Adiantum.....	.....	to 1.00	1.00	to 1.25	.50	to 1.00	1.00	to 1.25
Smilax.....	15.00	to 20.00	15.00	to 20.00	.....	to 15.00	12.50	to 15.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 35.00	25.00	to 50.00	.....	to 35.00	30.00	to 50.00

cool weather which, with brief interruptions has prevailed for some time and while long stems and massive proportions are not yet obtainable the color and substance show a steady improvement over the summer quality. Carnations, also are showing up better but they have to go a good distance yet before they are any considerable factor in the exacting trade. There are still many gladioli of fair proportions, asters of questionable mien and dahlias good and bad. Chrysanthemums are increasing in number and in variety. Lilies hold a stiff place for the time being and lily of the valley refuses to back down. Cattleyas have emerged from their obscurity and down goes the price. Here and there a few violets peer around the corners with a timid curiosity to ascertain whether they are destined to

occupy the grand stand or only the bleachers this season.

PHILADELPHIA Business continues good and is all that could be

expected for this time of year. There is a fair amount of stock arriving and almost everything sells out pretty well. The rose market is in excellent shape with supplies rather on the short side. Russell is still the leader and there are some very fine Jonkheers arriving. Carnations continue to improve and the prices are holding up well. Lily of the valley is a little more plentiful and comes in very nicely for the fall weddings. The same may be said of cattleyas and other seasonable orchids. Gladioli and asters are still to be seen but the latter are short stemmed. Dahlias are in better supply and selling right well.

(Continued on page 487)

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2261, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street

Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE 608 / 609 / MADISON SQ., NEW YORK

JOHN YOUNG & CO.
WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.
Tel. 1583 / 5883 Mad Sq. 119 W. 28 St., New York

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.
Wholesale Commission
READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE 2281 / 3089 FARRAGUT 131 West 28th St., NEW YORK CITY

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES, CARNATIONS

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 769

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 2483 Farragut

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones 1664 / 1665 Madison Square

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

American Beauty, Special
" " Fancy and Extra
" " No. 1 and culls
Russell, Hadley
Killarney, Hillingdon, Ward, Extra
" Ordinary
Arenburg, Radiance, Taft, Key, Extra
" Ordinary
Ophelia, Mock, Sunburst, Euler, Extra
" Ordinary
Carnations
1.00 to 1.50

Last Half of Week ending Sept. 23 1916		First Half of Week beginning Oct. 2 1916	
15.00	to 30.00	20.00	to 30.00
10.00	to 15.00	10.00	to 15.00
2.00	to 8.00	2.00	to 8.00
2.00	to 10.00	2.00	to 10.00
3.00	to 10.00	3.00	to 8.00
.50	to 2.00	.75	to 2.00
3.00	to 10.00	4.00	to 8.00
.50	to 2.00	.75	to 2.00
4.00	to 10.00	4.00	to 10.00
.50	to 2.00	.75	to 3.00
1.00	to 1.50	1.00	to 3.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for doing
our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK
Phones 2036, 2037, 558 Farragut

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797-798-799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality.

114 West 28th Street

NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13—3510 Madison Square

MAURICE L. GLASS, Treasurer

Consignments Solicited

Flower Market Reports

(Continued from page 485)

WASHINGTON Business has shown considerable improvement. Aside from lily of the valley and asters, there are plenty of flowers. Violets have made their appearance, and chrysanthemums are becoming more plentiful. These latter and dahlias, now coming in large quantities, lead in the day's sales and it is a hard matter to get proper prices on anything else. Roses are much more plentiful. American Beauty moving at good figures. Gardenias are scarce. Orchids are more plentiful and cheaper. Lily of the valley continues to soar.

Visitors' Register

Chicago—Mrs. E. J. Reed, Vicksburg, Mich.; Edward Reid, Philadelphia, Pa.; Marian Oelschmidt, East St. Louis; Geo. Crabb, Grand Rapids, Mich.

Philadelphia—Albert M. Herr, Lancaster, Pa.; William H. Vance, Wilmington, Del.; Henry Holsappel, Jr., Hagerstown, Md.; Miss Rena Bester, Hagerstown, Md.

Boston—W. A. Manda, South Orange, N. J.; George Smith and Geo. H. Smith, East Orange, N. J.; Stephen Green, repr. H. Bayersdorfer & Co., Phila.; J. J. Karins, repr. H. A. Dreer, Phila., Pa.

Washington, D. C.—H. E. Larsen, V. Swenson Co., Chicago, Ill.; Robert Pyle and Antoine Wintzer, West Grove, Pa.; H. B. Cowgill, Porto Rico; W. B. Lake, Phila.; F. G. Rynsbarger, Lisse, Holland; John J. Perry, Baltimore, Md.; Joseph J. Goudy, Phila., Pa.; R. E. Blickham, A. L. Randall Co., Chicago, Ill.; L. F. Burnham, Garland Co., Cleveland, Ohio; C. H. Wagner, Hamilton & Co., Baltimore; Robert Shoch, Phila.

NEWS NOTES.

Ripon, Wis.—E. L. Parmenter has purchased the greenhouse business formerly conducted by H. L. Clapp.

Murray Hill, N. J.—On Sept. 21, 50 Italians employed by L. B. Coddington in his greenhouses, struck for an increase in pay. Police protection was secured to prevent possible damage to the greenhouses.

Stamford, Conn.—Waldemar Osterby of Sea Cliff, L. I., has purchased

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2693

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Sept. 30 1916		First Half of Week beginning Oct. 2 1916	
Cattleyas.....	25.00	to 40.00	25.00	to 35.00
Dendrobium formosum.....	20.00	to 50.00	20.00	to 50.00
Lilies.....	6.00	to 10.00	6.00	to 10.00
Lily of the Valley.....	3.00	to 5.00	3.00	to 5.00
Snagdragon.....	.50	to 1.00	.50	to 1.00
Gладиoli.....	.50	to 4.00	.50	to 4.00
Chrysanthemums.....				
Dahlias.....	.50	to 4.00	.50	to 4.00
Gardenias.....	10.00	to 25.00	10.00	to 25.00
Adiantum.....	.25	to .50	.25	to .50
Smilax.....	8.00	to 15.00	8.00	to 15.00
Asparagus Plumosus, & Spreng. (100 bunches).....	10.00	to 25.00	10.00	to 25.00

VIOLET GROWERS

Before making your shipping arrangements for the coming season please correspond with me.

I HANDLE VIOLETS ONLY

and give my entire time and attention to the interests of my violet growers.

CLARENCE SLINN

Write Now

123 W. 28th Street, NEW YORK

Beechwood Heights Nurseries

THOMAS YOUNG, JR., Proprietor.

Bound Brook, N. J., U. S. A.

Importers and Growers of ORCHIDS

CUT FLOWERS OF ALL THE LEADING VARIETIES.

ORCHIDS IN THEIR SEASON.
ALSO GARDENIAS

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square
BOSTON, MASS.
Telephone 2618-2617-2616, Main.

William Stuart Allen Co.

Commission Merchants in

Cut Flowers

53 West 28th Street, NEW YORK
Telephone—356 Madison Square.

the greenhouses on the Elmwood estate, and will stock them at once. Mr. Osterby has had twenty years' experience, and sees a fine opportunity for business in this city. The greenhouses are extensive and were constructed in the best manner.

BUSINESS TROUBLES.

Brooklyn, N. Y.—Louis Kaiser, florist, 1318 Cortelou road, assets, \$1.25, liabilities, \$1,563.26.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK
Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of

Good Stock Solicited

PERCY W. RICHTER, Mgr., NEW YORK
111 W. 28th Street

HERMAN WEISS

Wholesale Florist

Experienced, Progressive and can handle shipments of growers' product satisfactorily.

106 West 28th St., NEW YORK
Tel. Farragut 3066.

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street
167 & 3058 Farragut NEW YORK

Established 1888

Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists

110 West 28th St., New York

We Solicit Consignments of New England Grown Novelties.

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 6413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ARAUCAIARIAS

Henry A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS

A. L. Miller, Jamaica, N. Y.
Asparagus Plumosus.

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-
LINGDALE GREENHOUSES, Collingdale, Pa.

ASTIBLES

Mt. Desert Nurseries, Bar Harbor, Me.
New Hybrids for Forcing.
For page see List of Advertisers.

AUCTION SALES

The MacNiff Horticultural Co.,
New York City.
For page see List of Advertisers.

Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.

Johnson & Millang, Inc., New York City.
Plants, Bulbs, Etc., at Auction.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayeradorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price-
list.
JULIUS ROEHR'S CO., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.

For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

BEGONIAS.

Mrs. J. A. Peterson (New), 2½ in. pots,
\$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHR'S CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.
King Construction Co., North Tonawanda,
N. Y.

"King Ideal" Boiler.

For page see List of Advertisers.

Hitchings & Co., New York City.

For page see List of Advertisers.

Lord & Burnham Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made.
Write for list. HOLTON & HUNKEL CO.,
Milwaukee, Wis.

BOX TREES

August Rolker & Sons, New York City.
For page see List of Advertisers.

BOX TREES—Standards, Pyramids and
Bush. Price list on demand.
JULIUS ROEHR'S CO., Rutherford, N. J.

BULBS AND TUBERS

Hogewoning & Sons, New York City, and
Rynsburg, Holland.
Extra Selected Dutch-Grown Bulbs for
Fall Planting.

For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Hyacinth, Narcissus and Freesia Refracta
Alba Bulbs.

For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
French and Dutch Bulbs.

For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
French, Japan, Holland and Cold Storage
Bulbs.

For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

The MacNiff Horticultural Co.,
Holland Grown Bulbs.
New York City.

For page see List of Advertisers.

Henry F. Mitchell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.

For page see List of Advertisers.

Mr. B. Progressive, Florist,
Everywhere, U. S. A.

Dear Sir: It will be a decided advantage
as regards prices and quality to place your
order with us.

Soliciting your order through this ad
cuts down the overhead selling expenses
and you positively get lower prices and
better quality. Our terms are liberal and
are a guarantee that you get a square
deal, all bulbs guaranteed true to name or
money refunded.

Write us and upon request we will mail
you our booklet giving prices f. o. b. New
York or Chicago, and we also cheerfully
furnish you with any information that
may be desired. Those of our friends who
will mail us a list of their requirements
will find it has paid them to do so.

Awaiting to hear from you at your pleas-
ure, we remain, Yours very truly,

Westerbeek & Klyn,

Sassenheim, Holland.

Write to WESTERBEEK & KLYNN, 14
STONE ST., NEW YORK, N. Y.

BULBS AND TUBERS—Continued

Fottler, Flske, Rawson Co., Boston, Mass.

Anglin & Walsh Co., Williamsbridge, N. Y.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

BULBS FOR SALE.

Freesia Purity, \$8.00 thousand. Hy-
acinths, named varieties. Single Early
Tulips. Double Early Tulips. Single
Late Tulips. Darwin Tulips, named va-
rieties. Low Prices. Stock on hand.
Prompt delivery. Single Double Tulips,
\$4.50 thousand. Mixed Double Tulips,
Single Late Tulips, Darwins, \$5.00 thousand.
Double Nosed Von Slon; Golden Spur; Bi-
color Empress; Orange Phoenix; Poeticus
Ornatus and Emperor Narcissus. All
above varieties on hand. THOMAS COG-
GER, Melrose, Mass. Phone, Melrose 761-W.

CARNATIONS

Cottage Gardens Co., Inc., Queens, N. Y.
New Carnation Cottage Maid.
For page see List of Advertisers.

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

S. J. Goddard, Framingham Centre, Mass.
Crimson Carnation Doris.

CARNATION STAPLES

Split carnations quickly, easily and
cheaply mended. Pillsbury's Carnation
Staple, 1000 for 35c.; 3000 for \$1.00 post-
paid. I. L. PILLSBURY, Galesburg, Ill.

CHRISTMAS PEPPERS

A. L. Miller, Jamaica, N. Y.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.

Pompon Chrysanthemums.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.

For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

CINERARIAS

2½-inch pots

Half dwarf, selected strains, best colors:
\$3.50 per 100, \$30.00 per 1000; 3-inch, \$5.00
per 100, \$40.00 per 1000.

Write today for our Plant Bulletin and
Bulb List, containing everything you need.

S. S. PENNOCK-MEEHAN CO.,
1608-1620 Ludlow St., Philadelphia, Pa.

DAHLIAS

ORDERS BOOKED ANYTIME

For Fall or Spring delivery. Wholesale and
Retail. Send for Catalogue. NORTHBORO
DAHLIA & GLADIOLUS GARDENS, J. L.
Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest,
Best. New color, new form and new habit
of growth. Big stock of best cut-flower
varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketon, New York City.
For page see List of Advertisers.

For List of Advertisers See Page 467

DECORATIVE PLANTS—Continued
Bobbink & Atkins, Rutherford, N. J.
 For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
 For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
 For page see List of Advertisers.

DRACAENA CANES
 Colin Campbell, New York City.
 For page see List of Advertisers.

FERNS

A. M. Davenport, Watertown, Mass.
 Small Ferns for Dishes.
 For page see List of Advertisers.

R. Vincent, Jr., & Sons Co., White Marsh, Maryland.
 Boston Ferns.
 For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
 For page see List of Advertisers.

FERTILIZERS

Pulverised Manure Co., Chicago, Ill.
 Wizard Brand Cattle Manure.

FLORISTS' PLANT STOCK

Angila & Walsh Co., Williamsbridge, N. Y.
 For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
 For page see List of Advertisers.

E. B. Pennock-Meehan Co., Philadelphia, Pa.
 For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
 For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
 For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
 For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
 For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
 Fungine.
 For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
 For page see List of Advertisers.

Geraniums: S. A. Nutt. 2 1/4 in.; also rooted cuttings. First class stock. Write for prices. **FRANK LEITH & SON, Haverhill, Mass.**

GLASS

Sharp, Partridge & Co., Chicago.
 For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
 For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

Glass 6x8, 8x10, 10x12, 10x14, \$1.65 per box. Other sizes at factory prices. **C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.**

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
 Peerless Glazing Point.
 For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL
King Construction Co., N. Tonawanda, N. Y.
 For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
 For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL—Continued

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset, Boston.
 Pecky Cypress.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
 For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
 For page see List of Advertisers.

John C. Moninger Co., Chicago, Ill.
 For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
 For page see List of Advertisers.

Hitchings & Co., New York City.
 For page see List of Advertisers.

Lord & Burnham Co., New York City.

Metropolitan Material Co., Brooklyn, N. Y.

A. T. Stearns Lumber Co., Boston, Mass.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
 King Channel Gutter.
 For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
 For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS
Michigan Cut Flower Exchange, Detroit, Mich.
 For page see List of Advertisers.

The Kervan Co., New York.
 For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
 For page see List of Advertisers.

Pallades Nurseries, Inc., Sparkill, N. Y.
 For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
 For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
 For page see List of Advertisers.

Lord & Burnham Co., New York City.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
 For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
 For page see List of Advertisers.

Foley Greenhouse Construction Co., Chicago, Ill.
 For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset, Mass.

HOSE

H. A. Dreer, Philadelphia, Pa.
 For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
 Non-Kink Woven Hose.
 For page see List of Advertisers.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
 For page see List of Advertisers.

INSECTICIDES

Hammond's Paint & Slug Shot Works, Beacon, N. Y.
 Hammond's Thrip Juice No. 2.
 For page see List of Advertisers.

Aphine Manufacturing Co., Madison, N. J.
 Aphine.
 For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
 Aphis Punk and Nikoteen.
 For page see List of Advertisers.

INSECTICIDES—Continued

Eastern Chemical Co., Boston, Mass.
 Imp. Soap Spray.
 For page see List of Advertisers.

B. G. Pratt Co., New York City.
 Whys and Wherefores of Fall Spraying.

IRIS

John Lewis Childs, Flowerfield, N. Y.
 Japan Iris.
 For page see List of Advertisers.

LILY BULBS

Chas. Schwake & Co., New York City.
 Horticultural Importers and Exporters.
 For page see List of Advertisers.

McHutchison & Co., New York.
 Lily Bulbs from Japan.
 For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
 For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
 Lillium Harrisli Bulbs.
 For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
 For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
 Hohmann's Famous Lily of the Valley Pips.
 For page see List of Advertisers.

Loechner & Co., New York City.
 For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
 For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
 For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Hatboro, Pa.
 For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
 For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
 For page see List of Advertisers.

NURSERY STOCK

R. & J. Farquhar & Co., Boston, Mass.
 Trees.
 For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
 For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
 For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
 Hill's Evergreens.
 For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
 Hardy, Northern Grown Stock.
 For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
 For page see List of Advertisers.
August Reiker & Sons, New York City.
 For page see List of Advertisers.

Colin Campbell, New York City.
 For page see List of Advertisers.

NUT GROWING

The Nut-Grower, Waycross, Ga.
 For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
 For page see List of Advertisers.

ORCHID PLANTS

Julius Roehrs Co., Rutherford, N. J.
 For page see List of Advertisers.

Lager & Harrell, Summit, N. J.
 For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

PALMS

SINGLE PLANTS

Belmoreana, 4	-inch.....	\$40.00 per 100
" 5	-inch.....	75c. to \$1.00 each
" 6	-inch.....	\$1.25 to \$1.50 each
Forsteriana, 2½	-inch.....	\$20.00 per 100
" 4	-inch.....	\$40.00 to \$45.00 per 100
" 5	-inch.....	\$1.00 to \$1.25 each
" 6	-inch.....	\$1.25 to \$2.00 each
" 7	-inch.....	\$1.50 to \$2.50 each

Made up plants. Prices on application.

PHOENIX ROEBELENI

4-inch	.....	\$8.00 per 100
5-inch	.....	\$1.25 to \$1.50 each
6-inch	.....	\$2.00 to \$2.50 each
7-inch	.....	\$2.50 to \$3.50 each

Write today for our Plant Bulletin and Bulb List, containing everything you need.

S. S. PENNOCK-MEEHAN CO.,

1608-1620 Ludlow St., Philadelphia, Pa.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection. (2nd) sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.

PHLOX

150,000 field grown Phlox in 12 leading varieties; all colors; true to name. \$3.50 per 100, \$30.00 per 1000. THE NILES NURSERY CO., Niles, Mich.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

POINSETTIAS.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

ROSES—Continued

August Rolker & Sons, New York City.
Hardy Roses, American Grown.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

ROSE STAKES

The Carnation Support Co.,
Connersville, Ind.
For page see List of Advertisers.

SASH

Standard Hot Bed Sash with cross bar, 80c. each; lots of 25 and over, 75c. each. Satisfaction guaranteed or money refunded. Glass 6 x 8, 8 x 10, 10 x 12 or 10 x 14, \$1.85 per box of 50 sq. ft. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Gigantic Cyclamen.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
Giant Cyclamen Seed.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snaptadragon.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Seeds, Selected Strains.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
For page see List of Advertisers.

Roman J. Irwin, New York City.
New Crop Florists' Seeds.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Seeds for the Florist.

Colin Campbell, New York City.
English Vegetable, Farm and Flower Seed.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGUNA & HURBELL, Summit, N. J.

SWEET PEA SEED

Arthur T. Boddington Co., New York City.
Winter Flowering Spencer Sweet Peas.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet Peas.
For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VIOLETS

Clarence Shinn, 123 West 28th St., New York City.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIREWORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 230-232 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 2 Winthrop Sq.
For page see List of Advertisers.

Bound Brook, N. J.

Beechwood Heights Nurseries.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 29 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 568-570 Washing-
For page see List of Advertisers.

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.

For List of Advertisers See Page 467

WHOLESALE FLORISTS
Detroit

Michigan Cut Flower Exchange, 264-266
Randolph St.
For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 106 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
For page see List of Advertisers.

Hentz & Nash, 55 and 57 W. 28th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 28th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Handy & Schenck, 436 6th Ave., between
26th and 27th Sts.
For page see List of Advertisers.

Madgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

Woodrow & Markatos, 37 and 39 W. 28th St.
For page see List of Advertisers.

Kiedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 53 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Wettmann & Reynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunther Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

George W. Crawbuck Co., 57 West 28th St.
For page see List of Advertisers.

Clarence Slinn, 123 West 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ransstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1008-20
Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 21 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.

New Offers In This Issue**CINERARIAS—FERNS FOR DISHES.**

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

DRACAENA CANES.

McHutchison & Co., New York City.
For page see List of Advertisers.

FIELD GROWN IVY—PARIS DAISIES. GENISTAS.

A. L. Miller, Jamaica, N. Y.
For page see List of Advertisers.

HYDRANGEA OTAKSA AND AVA-LANCHE.

Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

LILIUM FORMOSUM BULBS.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

LILY BULBS.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

LILY OF THE VALLEY—CATT-LEYS—DAHLIAS.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

NARCISSUS PAPER WHITE GRANDIFLORA.

Hogewoning & Sons, New York City.
For page see List of Advertisers.

PEONY DAHLIA MRS. FREDERICK GRINNELL.

John P. Rooney, New Bedford, Mass.
For page see List of Advertisers.

QUALITY GREENHOUSES.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

SEEDS, BULBS, IMPLEMENTS.

Thomas J. Grey Co., Boston, Mass.
For page see List of Advertisers.

TWO MAGNIFICENT NEW SHRUBS.

Cedar Hill Nurseries, Glen Head, L. I., N. Y.
For page see List of Advertisers.

WHOLESALE FLORIST.

William Stuart Allen Co.,
53 West 28th St., New York City.
For page see List of Advertisers.

THE NUT-GROWER

The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 147 Summer St., Boston.

HELP WANTED

WANTED—An all around florist on a commercial place. Sober and reliable. References required. GEO. E. FELCH, Ayer, Mass.

SITUATIONS WANTED

Gardener with first-class references, 30 years old, married, no children. Experience in and outdoors on well-known private places. Address "R. S." care HORTICULTURE, Boston.

FOR SALE**FOR SALE OR RENT**

AT WESTERLY, R. I.

The greenhouses formerly operated by L. P. Rankin. In good running order. well stocked with roses. An opportunity for a live, energetic florist. For further particulars and terms, inquire

THE WASHINGTON TRUST COMPANY

Westerly, R. I.

Or S. S. PENNOCK

1612 Ludlow St., Philadelphia, Pa.

FOR SALE—Cheap for want of use, one 6 H. P. Gas Engine and Pump. CHAS. HOFFMEYER, Carnegie, Pa.

MISCELLANEOUS

WANTED—Second Hand Greenhouse Glass, size 16 x 24. Address WALTER J. RICHARDS, 390 Front St., Weymouth, Mass.

TREES, SHRUBS, VINES and HERBACEOUS PERENNIALS

By JOHN KIRKEGAARD

Formerly Assistant to Director of the Royal Botanical Gardens, Copenhagen, Denmark. Latterly Twenty Years in American Forestry and Botanical Work.

Assisted by DR. H. T. FERNALD,

Professor of Entomology Massachusetts Agricultural College and Entomologist, Massachusetts Agricultural Experiment Station.

and PROF. E. A. WHITE,

Professor of Floriculture, New York State College of Agriculture at Cornell University.

A Great Book A Beautiful Book
A Comprehensive Book

A Practical Book By Practical Men
There Is No Other Book Like It

110 Pages. Planting Plans. Tabular Description and Classification of Species. Full-Page Illustrations in Tone. Authoritative Articles on Many Subjects.

New Edition

BEAUTIFULLY BOUND IN CLOTH

Price only \$2.50 net. Mailing

Price, \$2.71. Money-Back

Guarantee

Order it from HORTICULTURE

147 Summer St., Boston

In writing to Advertisers kindly mention Horticulture

TRIALS OF DAHLIAS IN MINNE- SOTA.

Report of Dakota Trial Station Located at University Farm, St. Paul, Minn., Up to September 25, 1916.

Through the courtesy of some seven or eight growers located throughout the United States, about 700 tubers were planted between the 7th and 12th of June. Up to about the middle of July this section had altogether too much rain, making it difficult to cultivate, and being detrimental to plant growth. This was followed by drought up to the first of September. Some very hot weather was experienced a part of this time so that Dahlias planted early were very badly stunted. When the fall rains came on the latter part of August and September many of these plants started into growth, and with good growing weather, would have produced a fair crop of flowers. The weather from Sept. 1 to date has been rainy and cold, with several light frosts. The dahlia gardens were partially injured by frost on Sept. 18, although part of the plantings did not suffer at all.

We set some tubers the first part of July from old stock that we had at the station. These have made a good growth and are filled with buds. The foliage is bright and with a little warm weather, would give a good crop of flowers. Only about ten per cent. of the plants under trial have flowered.

The red spider was abundant during hot weather, although we kept it partly in check during the spring.

Some loss of plants was experienced during the dry weather, although not many. Apparently the tubers stood the drought better than the potted plants. The potted plants started out well in the spring, but were badly hit by the hot, dry weather, while the tubers were not so seriously injured.

Some grafted tubers were received and these did very well. The varieties that apparently have done the best and are at the present producing the best flowers are: Psyche, Uncas, and Geneva 162 F. Other plants are just coming into flower and will probably equal those named. A further report of these will be made when the tubers are dug.

On Sept. 1 the Garden Flower Society held a meeting at the Station and visited the gardens.

I think we have more flowers on our plants than any of the growers in the vicinity, but they have not produced anywhere near as many as they would with an ordinary season.

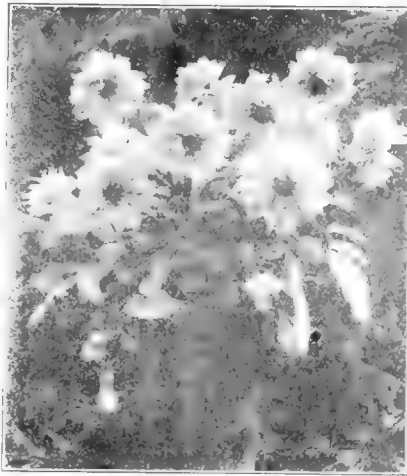
I hope those who have furnished tubers and others that have promising varieties will think it worth while to continue this work over another season, when climatic conditions may be better.

LE ROY CADY,
Associate Professor of Horticulture,
University Farm, St. Paul, Minn.

It is reported that the Country-side Magazine, published in Harrisburg, Pa., and until recently known as Suburban Life has been sold to The Independent. It is also published by Harper's Weekly.

PEONY FLOWERED DAHLIA MRS. FREDERICK GRINNELL.

We had occasion to mention in connection with the recent Dahlia Show in Boston the handsome new Peony Dahlia, Mrs. Frederick Grinnell, raised and exhibited by John P. Rooney of



New Bedford. We have now to record another high distinction accorded to this sterling novelty, news of which came too late for our issue of last week, in which it secured a first-class certificate from the American Dahlia Society at its New York exhibition. Up to date this new comer has won four certificate of merit, one gold medal, two silver medals, two bronze medals, and one special award, and the end is not yet. In color it stands without a rival and in all the other qualifications it is second to none. The color of the flower is described by Professor F. H. Hall of Geneva, as follows:

The body of the petal is deep rose pink often veined deeper shade, passing to mid-low pink toward tip with point pale amar- anth pink, the latter two areas increasing with age of flower. Base of petal marked lightly with light salmon orange, faintly bronzed. Large center, orange to cadmium yellow. Beautiful by both natural and artificial light. Possesses a distinct fragrance, most marked as the flower ages.

LANDSCAPE ARCHITECTURE EX- HIBIT.

In an effort to stimulate interest in landscape architecture there will be held in the Museum of the Missouri Botanical Garden, St. Louis, during the month of October, an exhibition of plans, drawings, models, and photographs of some of the best of the recent landscape developments in this country. This exhibition will be under the management of the American Society of Landscape Architects and of the Missouri Botanical Garden. Several of the best-known landscape architects of this country will contribute, and the Departments of Landscape Architecture of Harvard University, Massachusetts Agricultural College, the School for Gardening of the Missouri Botanical Garden, and other institutions will be represented. The work shown will include developments of private estates and home grounds, parks, playgrounds, cemeteries, and subdivisions, and a few plans and sketches showing the beautification of civic and neighborhood centers will probably be on display.

MASSACHUSETTS AGRICULTURAL COLLEGE NOTES.

Mr. and Mrs. Peter Fisher, of Ellis, Mr. Shea and M. A. Patten, of Tewksbury, were recent visitors at the college greenhouses.

A. S. Thurston, formerly assistant in the department of Floriculture, has accepted the offer of Iowa Agricultural College, Ames, Iowa, to head the Department of Market Gardening and Floriculture.

S. H. Hall, a graduate of the college last June, is now with S. J. Goddard, of Framingham, Mass. G. A. Read, a graduate of the college in 1914, is now manager of the Peckham Floral Company at Fairhaven, Mass.

The new perennial gardens have shown their great value to the college and the florists of the neighboring country this past summer. There are now over five hundred species of herbaceous perennials and it is expected that this number will be materially augmented in the future.

C. E. Wildon, 1916, has been appointed as assistant in the department of Floriculture to fill the vacancy left by Mr. A. S. Thurston. A. V. Osmun has been promoted to Professor of Botany and Head of the Department of Botany. Paul J. Anderson has been promoted to Associate Professor of Botany.

The M. A. C. Florists' and Gardeners' Club reports a great deal of enthusiasm for the coming year and it is planned to make this year the biggest year in the history of the club. E. Stanley Duffill, of Melrose Highlands, Mass., has been elected president; W. I. Cross, of Hingham, vice-president, and John J. Dizer, E. Weymouth, secretary-treasurer.

The new year has opened with an enrollment of thirty students in the courses in Floriculture. There are also two students entered in the graduate school as candidates for the degree of M. Sc. in Floriculture. These students are L. H. Jones, of Milford, Mass., and C. E. Wildon, of Melrose Highlands, Mass., both having received their B. Sc. in June, 1916.

The annual flower show will be held the second week in November. Plans are being made to make this show the largest yet held at the college. Special exhibits and prizes are being arranged for. The co-operation of the Northampton and Holyoke Florists' and Gardeners' Club has been assured. Prof. A. H. Nehrling is much gratified by the amount of interest and enthusiasm shown.

A FRIEND OF THE DAHLIA.

Editor HORTICULTURE:

Dear Sir:—Your editorial "Mutations of the Dahlia" is very timely and I thoroughly agree with you that something ought to be done to protect this splendid flower and some standard fixed by which new varieties could be judged as it is with the carnation, chrysanthemum, etc. Your editorial hits the nail on the head, and I hope that it may be brought to the attention of all growers and raisers of dahlias so that their efforts may be guided in the right direction.

Very truly yours,

GEO. W. FRASER.

Storrs, Conn.

ASSISTANT GARDENERS' ESSAY CONTEST.

The closing date of the National Association of Gardeners' essay contest for assistant gardeners is drawing near. The prizes offered by President William N. Craig, \$25 gold for first prize, \$15 gold as second prize and \$10 gold for third prize are for any subject pertaining to any branch of horticulture. The essays are limited to twenty-five hundred words and must be signed with a nom de plume, must bear no evidence of the author's identification and be mailed in plain envelope before November 1st (on which date the contest closes) carefully addressed to the chairman of the essay committee, William H. Waite, Box 290, Madison, N. J.

The contestant will also place his name and full address, stating the position he holds, in an envelope writing the nom de plume he signed to his essay on the outside of this envelope and mail same enclosed in an envelope addressed to the secretary, M. C. Ebel, Madison, N. J. This will not be opened until the judges have rendered their decision on the contest.

The successful contestants will be announced at the annual convention of the association which will be held in Washington, D. C., the first week of December.

The rules must be strictly followed to avoid disqualification. The essay must be written distinctly and on one side of the paper only.

PUBLICATIONS RECEIVED.

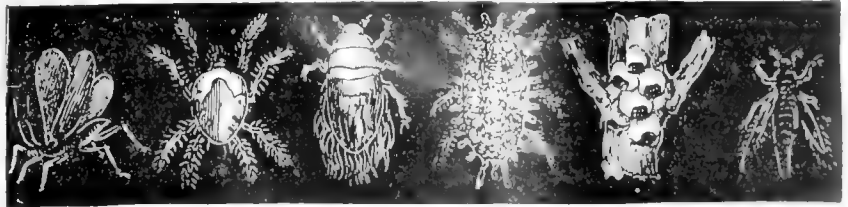
Book of Garden Plans, By Stephen F. Hamblin—This splendid book is just off the press of Doubleday, Page & Co., Garden City, New York, and it is new in text and illustrations and treatment of its subject, from cover to cover. There are thirty-two pages of illustrations, all beautiful, and twenty full page blue prints with thoroughly practical directions and perspicuous planting lists for each, with photographs of striking examples illustrating the basic idea. To make these plans as real and concrete as possible, the author has in mind an actual piece of property with definite conditions to be met in each case. In this way are described; A Farm Home of Five Acres, Planting for a Small Suburban Lot, Shrub Planting for a Village Home, A Rose Garden, Wild Planting, A Small Informal Garden, A Natural Rock Garden, A Border of Fragrant Flowers, An Annual Garden, A Water Garden, etc. A final chapter gives information on the practical side of gardening—the trees, plants, shrubs, vines, etc., for various conditions, cost estimating, time for planting, and other details. The author is a well known authority and landscape architect formerly associated with Warren H. Manning and at present identified as an instructor in landscape architecture at Harvard University. This book should prove a great help to every gardener, either professional or amateur, and everyone who is associated with a home garden in any way will get through its use a service that hundreds of dollars would not buy. The price is \$2.00 net. Copies may be ordered from the office of HORTICULTURE.

Brooklyn Botanic Garden Leaflet, Series IV, No. 11, published by The

Hammond's Thrip Juice No. 2

REGISTERED

A Contact Insecticide, Useful and Reliable, Used for 30 Years in Green-houses, and on Plants, Grape Vines, Trees and Shrubs



Some common Sucking Insects, magnified.

HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.

Brooklyn Institute of Arts and Sciences, has a very interesting account of The Origin and History of Our More Common Cultivated Fruits, by Orland E. White. The paper fills nine pages. Appended is a table of various fruits, giving their names, probable length of time of cultivation, their country of origin, with short comments.

CATALOGUES RECEIVED.

Harrison's Nurseries, Berlin, Md.—Catalogue of Fruit and Ornamental Nursery Stock.

J. J. Wilson Seed Co., Inc., Newark, N. J.—Bulbs for Fall Planting and Spring Flowering.

Stumpp & Walter Co., New York City—Bulb Catalogue, Autumn, 1916. A "classy" publication, well illustrated.

Hoffman's Dutch Bulb House, Baraboo, Wis.—Fall Announcement and Price List of Bulbs, Plants and Roots.

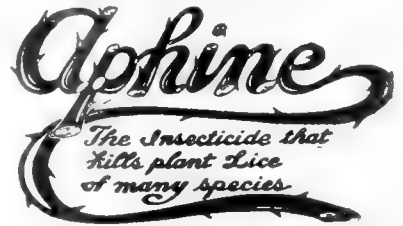
D. Hill Nursery Co., Dundee, Ill.—Wholesale Catalogue of Young Stock and Specimen Conifers and other Nursery Stock.

A. T. Boddington Co., Inc., New York—Garden Guide, Summer and Autumn 1916. A very attractive catalogue, especially in its illustrations which are artistic and effective.

Princeton Nurseries, Princeton, N. J.—Price List for the Trade, Fall 1916. This is the first catalogue of this young company and it is very complete in its lists of ornamental material.

Vincent Lebreton, La Pyramide—Trelaze, near Angers, France—Wholesale Trade List of Nursery Stock for Autumn 1916 and Spring 1917. McHutchison & Co., New York, are sole agents for U. S. and Canada.

Cottage Gardens Nurseries, Eureka, Cal.—This is the first general catalogue of the Cottage Gardens Nursery, Consolidated—embracing not only the stock listed at Eureka, Cal., but of the older nurseries at Queens, New York. Its lists comprise Specimen Ornamental Nursery and Florists' Decorative and Forcing Stock and many fine illustrations supplement the text. The preparatory pages contain an interesting account of the career of Charles W. Ward from the time when



The Recognized Standard Insecticide. A spray remedy for green, black, white fly, thrips and soft scale. Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SOA-LINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.

IMP.

SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON

NIKOTEEN

For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer For It.

NICOTINE MFG. CO.

ST. LOUIS

he first embarked in a modest way in plant growing at East Moriches, N. Y., up to the present when his nursery enterprises on the two coasts place him in a position of pre-eminence in the American nursery trade.

Est. 1765

Inc. 1904

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**POT MAKERS' CREDIT ASSOCIATION.**

The Pot Makers Credit Association recently held their second quarterly meeting in Columbus, Ohio, with 95 per cent. of the pottery trade on hand. The credit system established at the former meeting has in a few months shown a considerable saving in losses, proving the beneficial results of a credit system—and that the large losses of the past will be no more. To illustrate, under the methods of the past, a customer of one potter neglects to pay him, and buying from a new firm each year he soon owes all, and he is able to undersell his brother florist. The vital question of long credit was also brought up and after much discussion was held over for the next meeting, when more data would be obtained. However, it was brought out that the long-time credits were undesirable and unfair to the customer as well as to the business man.

P. M. READ, Sec.

PATENTS GRANTED.

1,199,688. Lawn-Mower Grass-Gathering Attachment. William R. Gessler, New York, N. Y.

**NON-KINK WOVEN HOSE**

In any length (one piece) with couplings, 14c. per foot. Unequaled at the price. Remnants, shorter than 50 feet, 10c. per foot, with couplings.

**HOSE VALVE—70c.**

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

**DREER'S**

Florist Specialties, New Brand. New Style. Hose "RIVERTON." Furnished in lengths up to 500 ft. without seam or joint.

THE HOSE for the FLORIST
 1/2 inch, per ft., 15 c.
 Reel of 500 ft. " 14 1/2 c.
 2 Reels 1000 ft., " 14 c.
 1/2 inch, " 13 1/2 c.
 Reels, 500 ft., " 12 1/2 c.
 Couplings furnished
HENRY A. DREER,
 714 Chestnut St.,
 PHILADELPHIA, PA.

**STANDARD FLOWER
POTS**

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts., Washington, D. C.

**GREENHOUSES BUILDING OR CON-
TEMPLATED.**

Barre, R. I.—Pardon Allen, one house.

Freemont, O.—A. S. Horn, Croghan St., addition.

Rutland, Vt.—William L. Ford, North St., addition.

Ogden, Utah—Wever Floral Co., house 36 x 100.

Indianapolis, Ind.—Martin Brandlein, house 22 x 120.

Montreal, Can.—E. J. Hayward, fern house, 25 x 125.

Bellingham, Wash.—John McRae Smith, addition.

Eastland, Tenn.—Frank Cornell, range of houses.

Waverley, Mass.—Wm. W. Edgar Company, additions.

St. Louis, Mo.—John Held, Tennessee Ave., additions.

Rochester, N. Y.—George Eastman, East Ave., six houses.

Altoona, Pa.—C. L. Begalke & Co., East 22d St., one house.

Middletown, Ct.—Hospital for the Insane, house 35 by 125.

Corfu, N. Y.—Wendelin Preisach, rebuilding house 38 x 100.

Summit, N. J.—Chas. T. Behr, Pas-saic St., range of houses.

Spokane, Wash.—A. J. Burt, Augusta Ave., house 25 x 105, completed.

Hartford, Ct.—J. Albert Brodrib, 14 Windsor Ave., house 11 x 125, completed.

Peekskill, N. Y.—Chas E. Robinson, two Lord & Burnham houses, each 25 x 150.

Indianapolis, Ind.—Hepler & Mayer, 17th St. and Lyman Ave., house 25 by 100.

Aurora, Ill.—Aurora Greenhouse Co., two Moninger houses, each 30 x 150, completed.

Spokane, Wash.—Peters Bros., three vegetable houses, completed. Hoyt Bros. Co., rose house 25 by 100, completed.

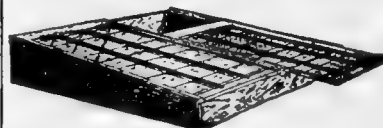
NEW CORPORATIONS.

Washington, Ia.—Mills Seed Company, capital stock, \$50,000. Incorporators, W. P. Wells, Orville Elder.

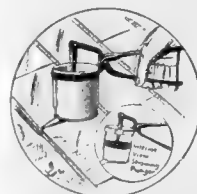
Hammond, Ind.—Ove Gnatt Co., ornamental foliage, capital stock, \$30,000. Incorporators, Ove Gnatt, Harry G. McLellan and James W. Stinson.

St. Louis, Mo.—St. Louis Poultry Supply & Seed Co., capital stock \$2,000. Incorporators, Frank B. Haller, Florence Smith and Peter J. Meyers.

Rockford, Ill.—R. V. D. Giddings Co., landscape gardening and general nursery business, capital stock \$5,000. Incorporators, R. V. Giddings, W. A. Brolin, G. J. Boehland and Harry L. Green.

**KROESCHELL
BOILER****SEND FOR CATALOGUE****KROESCHELL BROS. CO.**
406 W. Erie St. Chicago, Ill.**HOTBED SASH at 75c. each**
Made of best grade Gulf cypress.**Glazed Hotbed Sash from \$1.65 up.**
Double Light Sash up to \$4.00.We carry a large stock of all sizes.
Write us for estimate.**S. JACOBS & SONS**
1359-1385 Flushing Avenue BROOKLYN, N. Y.**PATENTS**Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERSPATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

Seal-tight liquid putty at \$1.25 per gallon.
METROPOLITAN MATERIAL CO.
 1392-1414 Metropolitan Ave., Brooklyn, N. Y.

King Greenhouses

KEEP SUMMER WITH YOU THE WHOLE YEAR ROUND

On account of their sturdy special construction which permits of great strength without the need of heavy shadow casting supports, these houses are so warm and sunny that they are filled with a riot of bloom and fruit when Jack Frost has stripped the garden of its beauty.

The ventilating and heating systems are the result of years of experience in building for professional growers. Things just have to grow in a King.

Write today for Bulletin No. 43. See how beautiful and how productive a greenhouse can be erected for the price you want to pay.

KING CONSTRUCTION COMPANY

King's Road, North Tonawanda, N. Y.

ALL THE SUNLIGHT

ALL DAY HOUSES



FOLEY MATERIALS

ARE THE BEST FOR

**Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES**

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street,

CHICAGO, ILL.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

MASTICA



For Greenhouse
Glazing

USE IT NOW

F. O. PIERCE CO.

12W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

GET OUR CATALOGUE

On Ventilating Apparatus and Greenhouse Fittings

ADVANCE CO., RICHMOND, IND.



EVERYTHING FOR THE GREENHOUSE
John G. Moninger Company

CHICAGO 922 Blackhawk St. NEW YORK 812 Marbridge Bldg.
CINCINNATI, 2314 Union Central Bldg.

THE FLORISTS' HAIL ASSOCIATION

Is a mutual organization, insuring greenhouse glass against hail. Both commercial and private establishments are accepted. For particulars, address

John G. Esler, Sec., Saddle River, N. J.
Insure Now.

Quality Greenhouses

At Minimum Cost

For Greenhouses of recognized merit,

For Greenhouses of proven dependability,

For Greenhouses of the very finest material and construction.

For Greenhouses which have demonstrated for over 45 years, that

**WE KNOW WHAT TO DO
AND WHAT NOT TO DO**

See Us!

S. Jacobs & Sons

Greenhouse Builders

1359-1385 Flushing Avenue
BROOKLYN, N. Y.

GLASS

**GREENHOUSE MATERIAL
HOT-BED SASHES**

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
515-517 Havemeyer St., Brooklyn, N. Y.

Dror's Peerless Glazing Points

For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1906, 75c. postpaid.
Sample free.

HENRY A. DROR,
714 Locust Street,
Philadelphia.

FULL
SIZE
No 2



Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.





Advantages of Hitchings Plan Of Greenhouse Unit Building

J. L. SEVERENCE,
Mayfield Rd., Cleveland, Ohio.

IT'S like starting out with a runabout and ending with a big, high powered seven passenger car.

First you adopt your base plan, based upon which, each unit is built. Starting with, say a workman and two compartment house 18 x 50 as numbered 1, 2, 3 of this plan; then you can add the remaining houses one at a time. As each unit is added, you continue to have an attractive balanced effect. Always your layout will be practical. Always it will give to you the highest productiveness at least run-

ning cost. Each location, each condition, however, requires a special unit plan to meet its requirements.

In planning such a plan, our Service Department is freely at your disposal. At your suggestion, we will send one of our experts to carefully consider with you the best way to meet your conditions.

Our catalog we imagine you will find of unusual preliminary interest.

It will give you rather a conclusive impression of the kind of work we do, and who we are who do it.

Hitchings and Company

NEW YORK
1170 Broadway

BOSTON
49 Federal Street

PHILADELPHIA
40 S. 15th Street

General Offices and Factory, Elizabeth, N. J.

Vol. XXIV
No. 16
OCT. 14
1916

HORTICULTURE

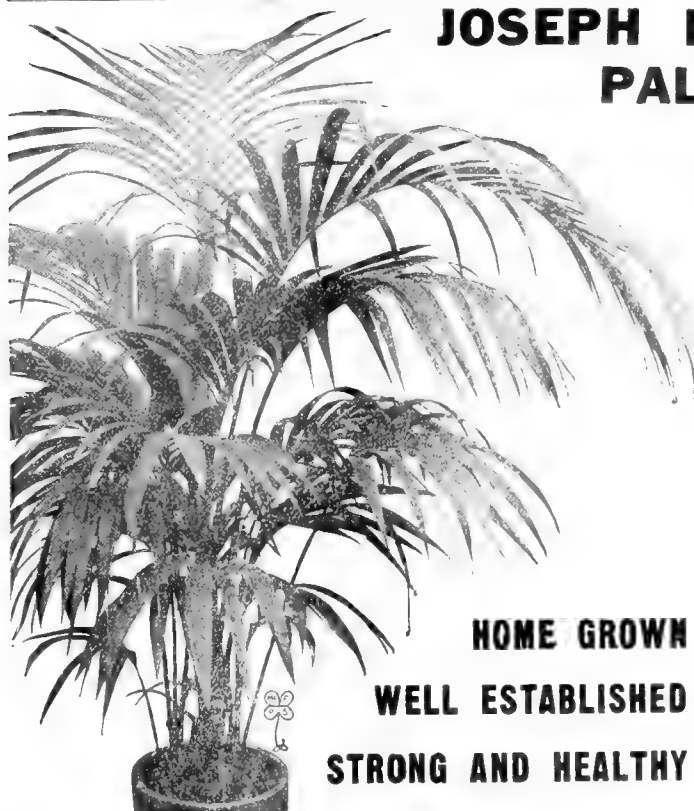


Montbretias, Germania and Sunset, in Bar Harbor, Me.

Showing Perfection and Free Flowering Habits in the North.

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription, \$1.00

JOSEPH HEACOCK COMPANY'S PALMS AND FERNS



CIBOTIUM SCHIEDEL.

9 in. tubs, 4 ft. spread \$ 4.00
9 in. tubs 5 ft. spread 5.00

**HOME GROWN
WELL ESTABLISHED
STRONG AND HEALTHY**

ARECA LUTESCENS.

In. high Each
6 in. pot. 3 plants in pot.....24-30 \$1.00

COCOS WEDDELLIANA.

In. high Per doz. Per 100
2 in. pot 6-8 \$ 1.50 \$12.00
2 in. pot 10-12 2.25 18.00

KENTIA BELMOREANA.

Leaves	In. high	Each	Per doz.
2 1/2 in. pot 4	8-10		\$ 1.50
3 in. pot 5	12		2.50
4 in. pot 5-6	15	\$.45	5.00
5 in. pot 6-7	18-20	.75	9.00
6 in. pot 6-7	22-24	1.00	12.00
6 in. pot 6-7	26-28	1.50	18.00
6 in. pot 6-7	30	2.00	24.00
7 in. cedar tub.....6-7	34-36	3.00	36.00
7 in. cedar tub.....6-7	38-40	4.00	48.00
9 in. cedar tub.....6-7	40-42	5.00	60.00
9 in. cedar tub.....6-7	48-54	7.50	

Ready Oct. 15.
9 in. cedar tub.....6-75 1/2 ft. 10.00

KENTIA FORSTERIANA.

Leaves	In. high	Each	Per doz.
6 in. pot 5-6	24	\$1.00	\$12.00
6 in. pot 5-6	30-32	1.50	18.00

KENTIA FORSTERIANA, Made-Up.

	In. high	Each
7 in. cedar tub, 4 plants in tub.....	30-36	\$ 3.00
7 in. cedar tub, 4 plants in tub.....	38-40	4.00
9 in. cedar tub, 4 plants in tub.....	40-42	5.00
9 in. cedar tub, 4 plants in tub.....	42-48	6.00

Ft. high
9 in. cedar tub, 4 plants in tub.....4 1/2 7.50
Ready Oct. 15.
12 in. cedar tub, 4 plants in tub..... 5 10.00
12 in. cedar tub, 4 plants in tub..... 5-5 1/2 12.00
12 in. cedar tub, 4 plants in tub..... 5 1/2-6 15.00
12 in. cedar tub, 4 plants in tub..... 6-7 18.00
12 in. cedar tub, 5 plants in tub..... 7-8 22.00

JOSEPH HEACOCK CO.,

Railway Station
Jenkintown

WYNCOTE, PA.

PEONY DAHLIA — Mrs. Frederick Grinnell

Seedling 1911. The Most Wonderful Dahlia Introduction. Creates a Sensation Wherever Shown

Its color is pond-lily pink, and like the pond-lily, it will grow in water from a bud just showing color to a full bloom. It keeps anywhere from four to ten days and will show its color in artificial light as well as in sunlight. Grows equally well in shade or sun, does not require rich soil and has a delicate fragrance which is very inviting.

Has received the following awards:

- 1st Class Certificate New Bedford Horticultural Society, September 14, 1911.
- 1st Class Certificate Massachusetts Horticultural Society, August 8, 1914.
- 1st Class Certificate Newport Horticultural Society, August 13, 1914.
- 1st Class Certificate American Dahlia Society, New York, Sept. 27, 1916.
- Bronze Medal Massachusetts Horticultural Society, August 7, 1915.
- Bronze Medal Newport Horticultural Society, August 12, 1915.
- Special award Southern New England Country Fair, September 14, 1915.
- Silver Medal, New Bedford Horticultural Society, September 21, 1915.
- Silver Medal, Massachusetts Horticultural Society, September 9, 1916.
- Gold Medal, Rhode Island Horticultural Society, September 12, 1916.

ORDERS Will be Taken Now for Delivery Next Spring. Pot Plants, \$5.00 each

Rights or Stock For Sale in Whole or in Part

Address for Particulars

JOHN P. ROONEY
93 BEDFORD STREET, - NEW BEDFORD, MASS.
Bell Phone 2486-W

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ELMER D. SMITH & CO.
CHRYSANTHEMUMS

Ask for Catalogue
ADRIAN, - - - MICH.

CHARLES H. TOTTY

CHRYSANTHEMUMS
MADISON, N. J.

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.
WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.
ROOSEVELTS—\$5 per 100, \$10 per 1000.
BOSTONS—\$4 per 100, \$35 per 1000.
250 at 1000 rates.
H.H. BARROWS & SON, Whitman, Mass.

CARNATIONS

Field Grown

ENCHANTRESS SUPREME. EUREKA
WHITE WONDER. PINK DELIGHT.

\$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL,
MATCHLESS,

\$7.00 per 100; \$65.00 per 1000.

LADY NORTHCLIFF, PINK WINBOR,
WHITE WINBOR.

\$6.00 per 100; \$50.00 per 1000.

WOOD BROS., **FISHKILL, N. Y.**

JAPAN IRIS SEEDLINGS

*From Home Grown and Imported
Seed insuring a splendid
range of colors*

50c. per doz.; \$3.00 per 100;
\$25.00 per 1000

Send for New Catalogue

JOHN LEWIS CHILDS, INC.,
FLOWERFIELD L. I., N.Y.

A. N. Pierson, Inc.
CROMWELL, CONN.
Bedding Plants and Roses

GERANIUMS

Alphonse Ricard, Beant Polteville, S. A. Nutt, Gen'l Grant, Mad. Buchner, Mad. Recan, Jean Vlaud, Jean Oberle, Abbie Schaefer, Mad. Landry, La Favorite and other good kinds, in 3-in. stock, at \$3.00 per 100; 2-in. at \$2.00 per 100, \$18.50 per 1000. We have a large stock for immediate shipment and are booking orders.

BOSTON FERNS, 4-inch, \$15.00 per 100; 7-inch, \$6.00 per doz.; 8-inch, \$1.00 each, \$9.00 per doz. Large plants, in 11 and 12-inch pots, from \$2.50 to \$5.00 each.

	2-in. 100	2-in. 1000	3-in. 100	3-in. 1000		2-in. 100	2-in. 1000	3-in. 100	3-in. 1000
ACALYPHA	\$2.00	\$18.50	\$3.00	\$25.00	LEMON VERBENAS	\$2.00	\$18.50	\$3.00	\$25.00
ALTERNANTHERA	2.00	18.50	3.00	25.00	LANTANAS , 10 varieties	2.00	18.50	3.00	25.00
AGERATUM	2.00	18.50	3.00	25.00	MOONVINES , White and Blue	2.00	18.50	3.00	25.00
ASPARAGUS SPRENGERI , Extra strong			5.00		PARLOR IVY , S. Scandens	2.00	18.50	3.00	25.00
BEGONIAS , Vernon	2.00	18.50			PETUNIAS , Double and Single Mixed	2.00	18.50	3.00	25.00
COLEUS , 10 varieties	2.00	18.50	3.00	25.00	POMPON CHRYSANTHEMUMS	2.00	18.50	3.00	25.00
CUPHEA , Platycentra	2.00	18.50	3.00	25.00	SALVIA , Bonfire and Zurich	2.00	18.50	3.00	25.00
HARDY ENGLISH IVY	2.00	18.50	3.00	25.00	SWAINSONA , White	2.00	18.50	3.00	25.00

CELERY, White Plume, \$1.00 per 1000; 10,000 and over, 85c. per 1000. Golden Self Blanching, \$2.50 per 1000.

CASH WITH ORDER.

R. VINCENT, Jr., & SONS CO.,

**WHITE MARSH,
MD.**

LILY OF THE VALLEY PIPS

Danish and German Stock

**Booking Orders now for
1916 Crop**

LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

GERMAN, SWEDISH
AND DUTCH PIPS

CHAS. SCHWAKE & CO., Inc.

Valley

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....527	Childs, John.....498	Gasser Co., J. M.....513	Kramer, F. H.....513	Park Floral Co.....512	Siebrecht, W. R.....518
Albany Cut.....518	Lewis.....512	Gude Bros. Co.....512	Kroeschell Bros.....527	Parshelsky Bros.....527	Skidelsky, S. S.....511
Flower Ex.....518	Clarke's D. Sons.....512	Gunther Bros.....519	Kuebler, W. H.....518	Penn the Florist.....512	& Co.....511
Allen, J. K.....519	Clucas, R. W.....507	Guttman & Reynor.....518	Lange, H. F. A.....513	Pennock-Meehan Co.....517	Slinn, Clarence.....519
Allen, Wm. Stuart.....519	Cooke, Geo. H.....512	Hall Association.....527	Leonard Seed Co.....511	Pierce Co., F. O.....527	Smith, Elmer D. & Co.....498
American Bulb Co.....511	Cowee, W. J.....516	Hammond Paint & Slug Shot Works.....525	Loechner & Co.....499	Pierson, A. N.....498	Smith, P. J.....518
Anderson, S. A.....513	Craig, Robt. Co.....507	Hart, Geo. B.....518	Lord & Burnham Co.....528	Pierson, F. R.....500	Smith & Fetters.....513
Anglin & Walsh.....507	Crawback, Geo. W. Co.....519	Heacock, Joseph & Co.....498	McHutchison & Co.....500	Poehlmann Bros. Co.....516	Smith, W. & T. Nursery.....507
Aphine Mfg. Co.....525	Dards.....512	Henderson, A. & Co.....511	McManus, Jas.....518	Pratt, B. G. Co.....526	Smyth, Wm. J.....513
Badgley & Bishop, Inc.....518	Davenport, A. M.....500	Hentz & Nash.....518	McConnell, Alex.....512	Pulverized Manure Co.....525	Stearns, A. T. Lumber Co.....527
Barrows & Son.....498	Dreer, H. A.....526	Hess & Swoboda.....513	MacNiff Horticultural Co.....507	Randall's Flower Shop.....513	Stumpp, G. E. M.....512
Bayersdorfer, H. & Co.....515	Dunlop, John H.....513	Hew, A. H. & Co.....526	Marshall, W. E. Co.....511	Reed & Keller.....516	Thorburn, J. M. & Co.....511
Bay State Nursery series.....507	Dysart, R.....512	Hill, E. G. Co.....516	Metropolitan Material Co.....526	Riedel & Meyer.....518	Totty, Chas. H.....498
Beechwood Hghts, Nurseries.....519	Eastern Chemical Co.....525	Hill, D. Nursery Co.....507	Michell, H. F. Co.....510	Reid, Edw.....516	Traendly & Schenck.....518
Bobbink & Atkins.....507	Edwards Polding Box Co.....516	Hogewoning & Sons.....509	Michigan Cut Flower Ex.....516	Reichmann Cedar Works.....524	United Cut Flower Co.....519
Boddington, A. T.....510	Elliott Auction Co.....500	Holland Nurseries.....507	Millang, Chas.....518	Robinson, H. M. & Co.....519	Valentine, J. A.....512
Bolgiano & Son.....511	Ernest, W. H.....526	Holm & Olson.....513	Miller, A. L.....500	Robinson, H. M. Co.....518	Vincent, R. Jr. & Sons Co.....499
Breck, J. & Son.....511	Esler, J. G.....527	Irwin, R. J.....511	Moninger, J. C. Co.....527	Roehrs, J. Co.....500	Wants, For Sale.....523
Breitmeyer's, J. Sons.....512	Evans, J. A. Co.....527	Johuson & Mil-lang.....508	Mt. Desert Nurseries.....500	Roland, Thomas.....513	Ward, R. M. & Co.....500
Budlong, J. A.....516	Farquhar, R. & J. & Co.....511	Jacobs, S. & Sons.....526-527	Murray, Samuel.....512	Roller, A. & Sons.....500	Weber, F. C.....513
Bunyard, A. T.....512	Foley Mfg. Co.....527	Kasting, W. F. Co.....516	National Nurseryman.....507	Rooney, John P.....498	Weiss, Herman.....519
Burnett Bros.....511	Ford, W. P.....518	Keller, J. B. Sons.....512	Nicotline Mfg. Co.....525	Rosay, Thos.....512	Welch's.....516
Burpee, W. A. & Co.....511	Ford, M. C.....518	Kelway & Son.....511	Niessen, Leo Co.....516	Schling, Max.....512	Welch Bros. Co.....516
Campbell, Colin.....500	Fottler, Fiske, Rawson Co.....510	Kerr, the Florist.....513	Out Grower.....523	Schwake, Chas. Co.....499	Welch, Pat K.....519
Carnation Support Co.....507	Froment, H. E.....518	Kervan Co.....518	Palisades Nurseries.....507	Sharp, Partridge & Co.....527	Wood Bros.....498
Carter's Tested Seeds, Inc.....510	Galvin, Thos. F.....513	King Construction Co.....526	Palmer, W. J. & Son.....513	Sheridan, W. F.....518	Woodrow & Markes.....516
Cedar Hill Nurseries.....500	Graham, Adam & Son.....513	Knoble Bros.....513		Siebrecht, Geo. C.....518	Young, John & Co.....518
	Grey, Thos. J. Co.....511			Sizgers & Sizgers.....526	Young, Thomas.....519
					Young & Nugent.....512
					Zvolanek, Ant. C.....511

**FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 520, 521, 522, 523**

IN THE LINE OF PROGRESS

We Are Headquarters for All the

New Hybrid Astilbes for Forcing

Very large spikes, magnificent foliage, named varieties in all shades from pure white to pink and rosy violet. Strong clumps for immediate shipment

Don't waste your valuable space on the old superseded sorts.

These new ones are indispensable

MOUNT DESERT NURSERIES, BAR HARBOR, MAINE.

DRACAENA CANES

All the best commercial varieties, including

LINDENI	MASSANGEANA	TERMINALIS
FRAGRANS	IMPERIALIS	SANDERIANA
AMABILIS	LORD WOLSELEY	Etc., Etc.

Write for Import Prices. Fall Shipment

McHUTCHISON & CO., THE IMPORT HOUSE 95 Chambers St., New York

Hardy Lilies

due to arrive from Japan by end of October; send for our SPECIAL OFFER of Auratum, Speciosum Album, Rubrum, Magnificum, etc., Lilies; also of GLADIOLUS and CACTUS DAHLIAS in best Florist's sorts; all either this Fall or next Spring delivery. Japan BAMBOO CANES in bale lots now ready. Our FIRST AZALEA SHIPMENTS from Belgium now on the way.

AUGUST RÖLKER & SONS, 51 BARCLAY STREET, New York or P. O. BOX 752

DRACAENA CANES

**FELIX
&
DYKHUIS**
Boskoop, Holland

Florist Stock for Forcing. Rhododendrons, Hydrangeas, Roses, Lilacs, etc. Nursery Stock. Aucubas, Buxus Bushes and Pyramids, Laurels, etc.

COLIN CAMPBELL, Importer, 90 Nassau Street, New York City

TWO MAGNIFICENT NEW SHRUBS

PHILADELPHUS VIRGINAL—The finest shrub in existence, large double flowers two inches in diameter, pure white, deliciously scented. Strong Plants \$2.00.

DEUTZIA CRENATA MAGNIFICA—A beautiful plant, pure white double flowers. A great improvement on the type. Strong Plants \$2.00.

A Fine New Clematis from Western China

CLEMATIS "FARGENT"—White flowers two inches in diameter. A strong growing vine that flowers at the end of June. Plants \$1.00.

CEDAR HILL NURSERY,

GLEN HEAD
L. I., NEW YORK

CINERARIA HYBRIDA GRANDIFLORA, 3 in. ready for 4½ in. \$5.00 per 100

CINERARIA STELLATA, Strong 3 in. ready for 4½ in. Mixed Colors, \$5.00 per 100

SMALL FERNS FOR DISHES

Plenty of Holly and Aspidium 2¼ in., \$4.00 per 100; \$35.00 per 1000. Adiantum rhodophyllum and cuneatum, 3½ in., very strong plants, \$8.00 per 100.

A. M. DAVENPORT, Watertown, Mass.

OLDEST AUCTION HOUSE

IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co.
42 Vesey St., New York

FIELD GROWN IVY

\$7 per 100, \$65 per 1000

Large Flowering Paris Daisies

4 in. ready for 6-6 1-2 in. \$10 per 100

GENISTAS

4 1-2 in. pots, very bushy, \$20 per 100

All the above is first class stock and grown especially for the critical trade.

A. L. MILLER

JAMAICA, N. Y.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, N. Y.

When writing to advertisers kindly mention HORTICULTURE.

LILY BULBS

RALPH M. WARD & CO.
71 MURRAY ST., NEW YORK

ORCHIDS

CONSERVATORY PLANTS

BEGONIAS

Lorraine, Cincinnati and Mrs. Peterson

JULIUS ROEHRS CO.
Rutherford, N. J.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—*Pope*.

Azaleas

Unpack as received and give the balls of roots a good dipping in a tub of water for at least an hour to soak them through. Pot firmly in 6 to 8-inch azalea pots, using any good potting soil, and stand them in a cool, shady house and keep rather close for a week. Spray lightly two or three times daily. Most of the azaleas are so heavily rooted that it is necessary to trim the roots so that they will go into a pot of suitable size. If the ball is cut down with big, sharp knife, I never saw the least harm come of it. Those wanted for holiday forcing should be gradually inured in a cool house of about 50 degrees, which will get them into shape for a warmer place in two or three weeks. Those wanted for Easter should be stored in a cool pit where they will get sufficient light and where the frost can be excluded in zero weather. On account of the slow importations, scarcity and high price, those who had some azaleas left over from last year and took care of them are in luck.

Care of Summer Flowering Cattleyas

Before starting to repot give the plants a thorough cleaning, but avoid as much as possible breaking the roots. Late summer flowering cattleyas that have had a good rest will now need repotting. It is always better to wait until new growths appear, with renewed root action, before giving them an overhauling. Use clean pans or baskets half filled with clean broken crocks. Small lumps of charcoal intermixed will help to make the drainage more effective. Quite a few growers use nothing but clear osmunda fiber for cattleyas and they seem to do fine in it, but, of course, every grower has his own idea as to compost. Newly potted orchids will only require just enough water at the roots to prevent the compost from becoming dry. When the growths have attained a few inches in length they will begin to make new roots into the compost and then the watering may be gradually increased.

Lilies for the Holidays

We should be able to count the buds the first week in November, if we want to be sure of the lilies being on time for the holidays. It is a very easy matter to hold them back at this season of the year. Plants of *Lilium Harrisii* that are wanted for the Christmas trade should be pushed from now on. Keep them as near the glass as possible and it is advisable to thoroughly damp down the house twice a day, especially in bright weather, also give them free syringing overhead on all good days. When lilies have their pots well filled with roots and are healthy they can stand anywhere from 65 to 70 degrees at night, with ten to fifteen degrees higher during

the day with sunshine. To enlarge the flowers and give color to the foliage, apply liquid manure twice a week. To keep the aphids down fumigate once a week. See that they have enough of room from time to time.

Otaheite Oranges

Give good syringing once a day now as it will be a great help in keeping down scale and mealy bug. By all means strive to keep free of these pests if you want highly finished plants. Give a sunny place with day temperature as near 70 to 72 as possible and from 52 to 58 at night. When pots are well filled with roots give liquid manure once or twice a week and examine them each day to see which ones need to be watered, as some will require a more liberal supply than others. Place them far enough apart and turn them around frequently.

Violets

During the daytime, even in cool weather, it will be necessary to withhold artificial heat and open all the ventilation possible. In a warm atmosphere the leaves will push out very rapidly although scarcely any flowers will appear. Continued warmth above the danger line mentioned is fatal to the production of flowers. The amount of heat will have to be determined by the character of the weather. The main thing is that the temperature must not rise above 45 degrees with fire heat. If leaf spot appears pinch off all affected leaves and then dust with dry Bordeaux mixture. Another good remedy is to syringe with a solution of potassium sulphide to a gallon of water. The violet house should be fumigated once every ten days or two weeks. The soil should be well drained and kept only moist. In applying water do not wet the entire bed unless it is dry all over. In dry places involving only one plant, while the remainder of soil is still moist, the dry places should be watered and the remainder of the bed left untouched.

Reminders

Keep sweet peas at from 40 to 45 degrees at night, with a 10-degree rise during the day.

Where you have not filled up the coal bins yet lose no time in getting in the winter supply.

Give ericas, azaleas, acacias, bay trees, epacris and other cool hardwood stock that you do not need until spring, a cool house of say about 40 degrees.

Keep show pelargoniums on the dry side until an inch of new growth has been made and then repot and place on a sunny bench in a temperature of 50 degrees at night.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Washing Pots

With the summer pots slacked up a little it will be well to stop a while and get all the pots cleaned up and put away so that they will be all ready when potting time comes around again which will be soon enough, although it seems but yesterday that we planted the last bench. It is very important to see that the pots are thoroughly clean on the inside. The most important place is the ring near the top about where the level of the soil will come. There is generally an extra thick scum on this, and if not carefully washed some of this will remain and spread over the new soil when the pot is used again. The old method of washing by hand can only be practiced where help is cheap and plentiful, and even then it will pay to wash the pots with time and labor-saving machinery, such as can be purchased or made at home. To make a pot washer does not require a skilled engineer, and anyone handy with tools will soon make one out of material generally found lying around idle. A shaft and a pulley are the main things, the pulley being attached to one end of the shaft and the brushes to the other end. To save the floors of the sheds, the work can be done outside as there is bound to be some water thrown around and this would never agree with the floors if they are of wood. The best way is to arrange to put a gang of men at the work and clean it up in no time. Where an electric motor is used for power, care should be taken to see that proper protection against water is provided, as no water must come near the motor and positively none into it, as water is as good a conductor of electricity as there is and a little of it in the working parts of a motor would prove fatal to it, not to mention the men around the machine who would likely get hurt by the short circuit that would result. A piece of roofing put over the motor is as good protection as any. Covering with a canvas is good but the motor must have air to keep cool, as otherwise it is likely to heat and wear out fast. Roofing is waterproof and stiff so that it will not hug the motor as much as a canvas would, and in this way the motor will keep much cooler. While the pots are being washed it is well to see that they are all the same size, and if mixed at all they should be properly graded. Also all cracked and broken pots should be thrown out. Before washing the pots should be soaked for several days in barrels full of water to soften all the dirt and thus save a great deal of time and brushes when the washing is done. Last but not least it is best to take inventory of all pots on hand and their respective sizes. Then with a list of plants to be grown and a list of pots it is simple enough to figure out the sizes that have to be ordered and this ordering should not be put off until the plants are in pots and pot-bound but, should be done now, thus giving them plenty of time to come, for if reports are correct the pot manufacturers are very busy and freights move slowly, so order them now and have them when they are needed.

Grading for New Houses

Right now is time to grade for all new houses that are to be built during the winter or early spring. If the work is done now the soil will have a chance to settle before the houses are built and there will be no settling of walls or benches after the houses are up. If the ground is very stony it will be well to watch where the stones are put so that they will not be in line where the columns or posts are to come, and be in the way when the holes are dug. It will be best to lay the ground out properly, and then grade right from one end to the other being careful to fill and cut to within a quarter of an inch. By having the ground ready many dollars and much annoyance will be saved as the building can then go right ahead, and if all is graded as stated above it will be a simple matter indeed to set up the benches, which is quite a proposition on uneven ground. Consider well the lay of the land so that no trouble will be experienced with water later on and the whole plant can be drained, not only the houses but the cellars as well, as there is nothing more annoying around a place than a wet cellar. Care should be taken to consider well all plans for the future, as many a dollar can be saved by careful planning now and avoiding expensive alterations later when more houses are added. If everything is carefully planned an addition should be built to the place without spending one dollar for changing anything on the old plant.

The Sod Heaps

In sections of the country where the soil is very heavy it is necessary to have all the sod heaped up in the fall so that the sod will be in shape to go into the benches in the spring. This work should not be put off too long now, as later the rains will so soak the ground that it will cost at least half as much more to put up the heaps as it would now while the soil is still a little dry. In taking the soil off the fields see that the field is not robbed too much so that there will be a chance for it to recover in as short a time as is possible. This can be done by plowing shallow, and taking the sod up with a fork and not a shovel. All that will drop through the fork should stay right on the field. It will be better for the field and for the roses too, as they want only the fibrous part of the sod. When it comes to manure see that there is plenty of it put into the soil and that the layer of sod is not too thick. Six inches of sod and then manure is right except that the very bottom layer of sod had better be thicker so that it will absorb all the leachings from the soil and manure above. If the layers of sod should be made too thick the manure will not have a chance to work through the soil as it should, and it will not be in as fine condition as it would if the sod layers were made thinner.

Montbretia Syn. Tritonia

(See Cover Illustration)

Indigenous to South Africa, montbretias are mid-summer and fall flowering plants producing beautiful spikes of wax-like flowers in brilliant tints of yellow, orange, orange-scarlet and crimson. Plantations of montbretias survive our winters safely under cover, *providing this covering is heavy enough to keep the bulbs from freezing.* In doubtful cases it is better to take the bulbs up in the fall and overwinter them like the gladiolus. Montbretias planted in spring, however, begin to flower from two to three weeks later than those left undisturbed in the ground. For this reason when growing them for the cut-flower market in masses it is of advantage to overwinter one part of the stock in the ground and lift the other part for spring planting thus getting the main crops apart in time.

We all are familiar with the two old standard sorts—the golden-orange *Montbretia crocosmiflora* and the yellow *Gerbard's Orange* but very few have so far taken real notice of that grand large-flowering type introduced during recent years. Of vigorous growth and very free and productive, the spikes of this new race represent a very desirable material for high-class design work and the filling of vases in refined private homes. The cultivation of montbretias in quantities for the cut-flower business has been so far chiefly carried on in our northern summer resorts. The photograph of the two

large beds of the varieties *Germania* and *Sunset*, reproduced in the cover of this issue, was taken by your correspondent at the Mount Desert Nurseries in Bar Harbor, Me., about seven years ago. It gives us some idea of the crops of flowers which are raised in this famous establishment under favorable climatic conditions and excellent care.

The great popularity of montbretias as choice cut-flowers among the refined society people should induce commercial growers, and particularly private gardeners, to give them more space and attention than has been given in the past. Growing them for cutting it is desirable to start with at least from 250 to 500 bulbs of each variety. Planted for garden effect on the border, 25 of one shade 5 to 6 inches apart is usually sufficient.

As the names of montbretias, especially in European trade lists, steadily increase, I mention a few varieties which have been tried in this country and found distinct and desirable. Ernest Davison is a very good one in rich orange suffused with carmine. The large flowers of Geo. Davison show a bright orange yellow, while *Germania* still leads in orange scarlet. King Edmund is golden yellow, Lady Hamilton yellow with rose shadings in the center. Vesuve is an interesting debutante in rich crimson and Goos & Koeneman's latest introduction, *Rheingold*, with flowers 1½ inches across, rich golden yellow, center marked with crimson brown blotches, will in time prove simply indispensable.

Glenside, Pa.

Richard Rothe

HERBACEOUS PERENNIAL GARDENS AT THE MASSACHUSETTS AGRICULTURAL COLLEGE.

These college gardens are proving of great value to the florists in this vicinity in many ways. Not only is the reviving interest in herbaceous perennials which is spreading over the country being stimulated, but the florists are awakening to a sense of the value of much native material. A good example of this is our native asters. Long before they were heard of as a cultivated plant in this country, England and Europe had taken long strides in their cultivation and improvement. Today the New England aster is becoming more and more popular and its beauty of color and abundance of flower are certainly hard to surpass at any time of the year. New colors, too, are being introduced from time to time. In roses we have a most beautiful rosy pink variety. The most beautiful, however, is Wm. Bowman, a purple form very much like the type, but a decided improvement.

Then, there are also the group of New York asters (*A. novi-belgii*), probably the best known of the aster group, but not nearly as rich and effective as the New England aster. *A. cordifolius*, *A. laevis* and a variety of others—all have great possibilities for some enterprising hybridist. *A. cordifolius* is especially beautiful and very easy to raise.

Another well-known group is the golden-rods. Seldom do we like to admit the truth about ourselves, when it is to our discredit, but it must be admitted we Americans are slow to appreciate art and the beautiful in nature. We are but children when it comes to art. The English prize the golden-rod with its beautiful, stately



Perennial Plant Gardens at Massachusetts Agricultural College, Amherst, Mass.

and graceful plumes and rich yellow color above everything. Their gardens are not complete without it. And they have produced some greatly improved forms. And to think—only recently we were trying to pass legislation to exterminate this pest (?).

Another group of plants that has come in for a great deal of comment this year is the heleniums. *Helenium Hoopesii* for spring flowers and *H. autumnale* for the fall are certainly wonderfully useful plants and the sooner the florists of the country awaken to its value the better for their pocketbooks. One enterprising young florist of the vicinity recently used them extensively in a big wedding decoration. The outlay was

small and the profits very satisfying. And so it goes down the list. Many of these herbaceous perennials make wonderfully valuable material for the retail florist, not to mention the profits from the plants as a side line.

There are four or five hundred species represented in the collection here. The aim of the Department has been to plant the most important species and all the species found in the average nurseryman's catalogue are to be met with here. The value of the garden has been established and it is to be hoped that the collection will be increased from time to time as funds become available. C. E. WILDON.

Amherst, Mass.

HORTICULTURE

VOL. XXIV

OCTOBER 14, 1916

NO. 16

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 147 Summer Street, Boston, Mass.

Telephone, Oxford 292.
 WM. J. STEWART, Editor and Manager.

ADVERTISING RATES:

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times), 5 per cent.; three months (13 times), 10
 per cent.; six months (26 times), 20 per cent.; one year (52 times),
 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office
 at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Montbretias, Germania and Sunset, in Bar Harbor, Me.	
NOTES ON CULTURE OF FLORISTS' STOCK— Azaleas—Care of Summer Flowering Cattleys— Lilies for the Holidays—Otaheite Oranges—Violets —Reminders— <i>John J. M. Farrell</i>	501
ROSE GROWING UNDER GLASS—Washing Pots— Grading for New Houses—The Sod Heaps— <i>Arthur C. Ruzicka</i>	502
MONTBRETIA SYN. TRITONIA— <i>Richard Rothe</i>	503
HERBACEOUS PERENNIAL GARDENS AT MASS- ACHUSETTS AGRICULTURAL COLLEGE— <i>C. E. Willdon</i> —Illustrated	503
OCTOBER GLORIES IN THE HARDY GARDEN— <i>William Saville</i>	505
CLUBS AND SOCIETIES—Joint Meeting of Indiana and Kentucky Florists—Florists' Club of Washing- ton—Meetings Next Week—Society of American Florists—New York Florists' Club—Nassau County Horticultural Society—Coming Exhibitions—Massa- chusetts Horticultural Society.....	508-509
Holyoke and Northampton Florists' and Gardeners' Club—Notes	526
SEED TRADE—One Week's Imports.....	510
OF INTEREST TO RETAIL FLORISTS: New Flower Stores.....	512
Flowers by Telegraph.....	513
NEWS ITEMS FROM EVERYWHERE: Chicago, Pittsburgh, Boston, Washington, New York, Cleveland	514
OBITUARY—Andrew Bathier.....	514
SOMETHING ABOUT ACCEPTING DEBTORS' NOTES IN SETTLEMENT OF ACCOUNTS— <i>Elton J. Buckley</i> ..	515
FLOWER MARKET REPORTS: Boston, Buffalo, Chicago, Cleveland, New York, Philadelphia	517
Pittsburgh, Washington	519
DURING RECESS—Washington Bowlers.....	526
MISCELLANEOUS: Publications Received—Catalogue Received.....	510
Personal	514
Visitors' Register	519
Indemnity for Damaged Parcel Post Packages.....	524
Sour Soils, Their Causes and Treatment.....	525
Business Troubles	525
Greenhouses Building or Contemplated.....	526

tryside and wildwoods for the floral gems which Nature has so bountifully bestowed. The extent to which this collecting business is carried is not generally realized. Some of our most beautiful native plants have been practically exterminated from districts where they once abounded.

To revivify
the promologists

We have been interested in reading the series of resolutions adopted by the American Pomological Society at its meeting in Berkeley, Cal., in September 1915, printed report of which has just now been received. We note particularly the official invitation extended to the various national horticultural organizations, including the Society of American Florists and Ornamental Horticulturists, to hold their meetings for 1917 at some common time and place and that there be at least one union meeting to consider topics and questions common to all branches of horticultural endeavor. This sounds good but the proposition to form a "Federation" of all horticultural organizations—state, district and national—under the wing of the American Pomological Society strikes us as in some respects an instance of the tail undertaking to wag the dog, pomology being only one of several divisions of horticulture and so far as our observation goes not exactly one of the most strikingly progressive at the present time. The venerable Pomological Society has been doing some useful work right along, as we all know; but the art for which it stands as the chief exponent can hardly be expected to make much progress while the fact remains as stated by G. C. Roeding of California, that "you cannot get the interest of fruit growers unless you can show them forcibly that it will put money into their pockets. That is the only way to do it." May we respectfully suggest that this was not the spirit that animated the Hoveys, Wilders, Downings and other pomological giants of bygone days, neither is it the dominating influence in the activities of the Society of American Florists and Ornamental Horticulturists or other organizations which in recent years seem to have outdistanced the Pomological Society in tangible evidence of life and progress. The Massachusetts Horticultural Society has been during its entire history a consistent and steadfast ally of the American Pomological Society and a liberal patron of the fruit growing interests. Yet at its annual fruit and vegetable show held last week the only fruit exhibit which the judges found worthy of special award was a dish of apples of a variety introduced from England a generation or more ago, to which they gave "honorable mention." And of the fourteen varieties of apples and fifteen pears listed in the prize classes, all were varieties common from forty to eighty years ago! A circular letter addressed "To All Lovers of Horticulture" sent out by President W. H. Hutt of the American Pomological Society calls for a meeting in Washington, D. C., November 16-18, for the "unification and co-ordination" of the various pomological interests. We ardently hope that these activities foreshadow a big revival in every branch of fruit culture and believe that affiliation with other horticultural bodies should help materially to that end. The Society of American Florists and Ornamental Horticulturists, which is the nearest approach to a National Horticultural Society in this country has in operation a practical system of affiliation which we venture to commend to the consideration of the Washington meeting, for with its numerical and financial strength and particularly its unique National Charter that organization would seem to be in a position to meet the fruit growing interests half-way.

Robbing
Nature

The spoliation of woodlands, meadows and hedgerows by parties who make a business of the sale of collected native plants has been carried to such an extent in Britain that certain of the horticultural journals have refused to accept any longer the advertisements of these people, offering their loot for sale. It will be a good thing for this country also, when similar reproach may be visited on the pothunters who make a business of ransacking the coun-

OCTOBER GLORIES IN THE HARDY GARDEN

Abstract of Address Before the Florists' Club of Philadelphia by William Saville.

Before discussing the question of October glories in the hardy garden, I should like to claim a kind of "poetical license" as regards the exact time these plants are expected to be in bloom. Quite a number of subjects that one would expect to be still with us have—owing to the dry season—not had such a prolonged flowering period as usual; and, on the other hand, other subjects are not so far advanced as might be expected. I take it that when Mr. Watson assigned to me this subject he was thinking of the autumn flowering herbaceous plants—and hardy perennials are the plants in which I am chiefly interested.

To obtain a grand effect with herbaceous plants, there is no better way of planting—to show their best form of growth and color—than the long double border with, if possible, a grass path between; and it is this grass path that gives a greater additional charm, as not only does it make a splendid ground work for the plants, but it is always restful to the eyes, and comes as a relief, on a hot summer day, from hard, sun-baked gravel.

To have small beds of herbaceous plants is, as a rule, unsatisfactory; it is difficult to cover up plants that are past their best. To have the same border always bright—as well as a blaze of color—from April to October is impossible. The only way to have continued bloom in the garden is to provide separate borders for different seasons; and I think it much better not to destroy the beauty of the main border by trying to get it in partial bloom spring, summer and autumn.

When being shown around a friend's garden, one is so often told "you should have been here two weeks ago!" or in a month's time. It is a curious fact—never mind what time of year one is in that garden—there is always some excuse. The reason is, too much has been attempted. The border may look fairly well in May and June; it has a hard struggle in July; and in August it throws up the sponge and decides not to try any more.

To obtain success in the border, one must take particular care to have the ground well-prepared. If this is done properly at first the border will last for several years; though it will, of course, require a top dressing every year, and the dividing and replanting of some of the stronger perennials. It is extraordinary how plants that have been split up each year will withstand a drought; whereas those that have been left in position several years and have grown into hard clumps show very early in any drought that they are in trouble.

The planting is one of those things

that cannot be done in hap-hazard style, and before this is begun it is far better to work out a proper plan than simply to put the plants in, regardless of time of flowering and color; and, what is still more important, to choose those plants that will hide others whose period of bloom is over.

Allow some of the tall plants to come boldly to the front, bearing also in mind that it is more effective to plant in long, irregular clumps than in the round clumps generally seen. The constant repetition of the same kind of plant should be avoided as much as possible. One generally has a particular favorite and likes more than one clump of it; but, as a general rule, plant a generous patch and be done with it. Plant thickly—no ground should be visible when the border season is on. In a thickly-planted border weeds have a poor chance.

It should be the aim in starting (as you enter the border from either end) to have flowers of light coloring and foliage plants of grey-glaucous or bluish leaf. As one passes to the centre the color is allowed to become stronger and stronger, until, in the centre position we have one strong color vying with another. There is a craze—which I have not seen successfully carried out—to have borders all blue; or graduated from white to pink; to golden; to bronze and up to crimson; but, in my opinion, a mixed border is preferable.

September and October are suitable months for planting if the soil is light and friable; but, in heavier land, it is safer to prepare the ground now and plant in spring, as winter mellow the surface and enables the soil to be more closely and firmly pressed around the roots and collars of the plants.

In planting it is important that the roots should be put down to full length and not be curled to fit the hole prepared for them, as it is upon these main roots that the plants rely to stand the summer drought.

We will now presume that the border has been planted. Weak growths have been thinned out; the depredations of slugs and cut-worms have been forgotten; and the plants have been properly staked at the right time. What have we to show for all this work?

The large family of *Phlox decussata* one might describe as opening the season of fall flowering plants; and there is no other family that gives such tone to the border. A few of the best varieties are: *Europa*, *W. C. Egan*, *Elizabeth Campbell*, *Gefion*, *Rynstrom*, *Rhineland*, *Tragedie*, *Wanandis*, *Baron von Dedem*, *Frau Anton Buchner*, and *Rosamund*, and these would make a good dozen. The dahlias and hardy chrysanthemums have had a wide popularity. I will speak of these later.

In yellow-flowering plants we have *Anthemis Kelwayi*, with *Helenium*

pumilum magnificum, *cupreum*, *Riverton Gem* and *Riverton Beauty*; and the large family of *Helianthus*, taking *Multiflorus fl. pl.*, *Wooley Doll* and the stately *Orgyalis* with its medium-sized golden yellow flowers as examples.

The red cardinal flower and *tritomas*; the deep blue of *Echinops Ritro*; the light blue of *Salvia azurea*; the graceful white flowers of *Anemone japonica* and the various-colored Giant marsh mallows (showing wonderful improvement in the size of the flowers and intensified coloring over the native rose mallow) all help to give the border that charming effect we desire.

The best results are obtained with the deep blue *Plumbago Larpentæ* by planting it in poor soil; in a position facing south, and it is, perhaps, curious that this is not more often grown. The blooming period of the border is carried on with the help of such plants as *Sedum spectabile*, spec. *Brilliant* and *atropurpureum*. *Penstemon Sensation*, a beautiful plant bearing spikes of large gloxinia-like flowers in a great variety of bright colors, including rose, cherry, crimson, purple, lilac, etc., until frost, but the plant must be given protection in winter; also *Penstemon barbatus Torreyi*. The newer varieties of *Anemones*, such as *Alice*, *Geant des Blanchés*, *Whirlwind*, *Rosea Superba* and *Loreley* (a neat semi-double flower, 3 inches in dia; of a bright silvery pink) should not be forgotten.

The plants best suited for the front row are many of the silvery *Artemesias*; the silvery foliage of *Santolina incana*; the grey foliage of *Stachys lanata*; the glaucous leaves of *Elymus glaucus* (blye Lyme grass).

The most precious, perhaps, of the hardy autumn flowers are the *Asters* of our American woods, and the improved European varieties. The best of these give a delightful mass of bloom, impressive in September and October. Include the light and deep purple and pink of the *amellus* varieties; the white, lilac and lavender of the graceful, feathery-flowered *cordifolius* family; the small many-colored flowers of the heath-like *ericoides* section; the tall varieties of *Aster Novæ Angliæ*; the numerous varieties of *Novæ Belgii* (included in which are the semi-double *Beauté* of Colwall, the perfect form of *Feltham Blue* and the soft pink of *St. Egwin*). If the border be properly planted and staked, a sea of bloom is visible when viewed from either end; enabling us, in the dull winter months to come to look back with satisfaction on the closing scene of autumn flowers.

To those of you who grow and retail your own plants and flowers and have little ground around your houses to spare, I would suggest that you will find it profitable to pay more attention to perennial plants. Fritz Bahr, in his notes on the week's work, in the Florists' Exchange, has been advising you

to do this for several years. But do not treat perennials as left-overs from spring sales and expect to make a profit; because if you do you will be disappointed and apt to say "Oh, I don't see anything in growing perennials!" Give them the same attention that you do your field-grown carnations, asters, vincas, ivies or other plants from which you expect to make a profit. You know if you do not give the necessary attention to carnation plants in the field you will have very few Beacon to retail at \$2.50 a dozen on December 24th. I believe perennials will pay you as well as asters have paid you—this year, at any rate—but you took a chance on the asters, prepared the ground for them, kept them cultivated and clean. Why not plant a piece of that ground to paeonies or delphiniums now; and when the asters are going off at the neck and the beetles are busy next summer, you can go out and cut belladonna or other delphiniums on three-foot stems, and you will find that your customer will take them, and also, in many cases, leave an order for plants at least a quarter each time.

Do you know that on August 20th this year some spikes of delphinium were sold in New York market at \$2.00 a dozen? They were fine spikes, I admit, but did you get the same price for speciosum lilies at the same time? I have had phone calls from the wholesalers in this town; also from Atlantic City, offering me \$25.00 for 250 spikes of belladonna, which convinced me that the demand was there, waiting to be supplied. I replied that we were not in the cut flower business, and diligently set to work to harvest all the seeds possible, so that you could have a chance. I read with interest the items discussing whether a four-inch geranium can be sold profitably at ten cents straight or a dollar a dozen. Sow digitalis and campanula about a month earlier than you put your geranium cuttings in, get them into 3½ inch pots by fall, keep them in a frame all winter, with a few dry leaves over them as a protection for the foliage, give them air early in the spring, keep them nice and stocky and hand them out to your customers at \$1.50 a dozen—they will get a lot of satisfaction and you will get a better profit. Get acquainted with some of the plants I shall mention, and make your customers feel you are giving them intelligent advice when they ask for suggestions. Your customers are taking a greater interest in outdoor gardening than they ever did before. They are not going to Europe in such large numbers every year, and many of them are using the time to beautify their own grounds.

Look up some of the magazines devoted to outdoor life and country pursuits and note the number of Garden Clubs that have been formed. See the number of demonstrating lessons that are being given actually in the gardens of the members. Result? I will venture to say that many of the stocks of hardy plants in the larger nurseries are lower at the present time than they have been for many years. If you do grow a few more hardy plants than you dispose of in the spring, plant them out; they will give you flowers that will be acceptable before the newly-planted carnations have begun to bloom and when

the first crop of roses opens up too quickly on you. They will also give you a greater variety—and one sale leads to another.

In the autumn you will have noted the flowers that have been in demand. Increase your plantings by division in October or early spring. To-night I am to speak only for fall flowers, but a good plant catalogue and your own good judgment will suggest plants that you can profitably use all through the summer months.

During the past few weeks, I have noted the following hardy plants, in addition to those already mentioned, and most of them are suitable for cut flowers or decorations.

Aconitum Wilsoni is a strong, stately plant, growing five feet high, with large violet blue flowers and is the latest flowering Aconite. The new *Anemone Hupehensis*, a recent introduction of merit from China, grows one foot high and produces flowers of a pleasing pale mauve rose one and one-half inches in diameter, from August until late autumn. The beautiful *Artemesia lactiflora*, four feet high, clothed with elegantly cut dark green foliage and terminated by panicles of hawthorn-scented creamy-white spiraea-like light and graceful flowers, is unlike any other plant in bloom at this time. The native *Boltonias*, with single aster-like flowers, give a showy effect in the fall and produce literally thousands of flowers. The *Buddleia* (or Butterfly Bush, as it is called) is deservedly popular with the florist. This shrub, from a young plant set out in May, will mature to full size the first season. It produces long, graceful stems which terminate in tapering panicles of beautiful lilac-colored flowers that are of miniature size and borne on a flower head which is frequently ten inches long. The second year it generally commences to flower in June and continues until nipped by severe frosts. I venture to predict that the *Buddleia* will become one of the most popular plants ever introduced.

The shrubby *Caryopteris mastacanthus* (or Blue Spiraea) is a handsome plant, about three feet high, carrying its rich lavender-colored flowers the whole length of its branches. *Chelone Lyoni*, with heads of purplish flowers and the white variety, are both useful. The free-flowering *Shasta* daisies, and the varieties *Arcticum*, *Alaska* and *Vermorensis* are among the freest flowering plants of September and October. The dense white spike of *Cimicifuga simplex* is appreciated, and when cut lasts in perfection a long time.

Coreopsis lanceolata, with its rich golden-yellow flowers, is invaluable for cutting and succeeds everywhere. The globular deep metallic blue heads of *Echinops Ritro* remain attractive a long time in a dry condition; and the finely-cut spiny foliage and beautiful amethystine blue heads of the Sea Holly are most ornamental. *Eupatorium ageratoides*, a strong free-growing plant, with minute white flowers in dense heads, is splendid for cutting; and the pretty *Eupatorium coelestinum*, with light blue flowers, similar to *ageratum* is in flower from August until frost. The common native *purpureum maculatum* (or Joe Pye weed) is useful in low ground. The gorgeous colored *Gaillardia grandiflora*

succeeds in any soil, in a sunny position, and is in flower all the time from June on.

The ornamental grasses can be used with telling effect in autumn borders. *Erianthus Ravennae* grows ten to twelve feet high, and throws up numerous plumes, resembling pampas grass, and does not need the same winter protection. *Eulalias*, planted singly where the soil is rich and deep, take care of themselves, and grow rapidly into large specimens. All the grasses do best in a heavy soil, enriched with manure and an abundant supply of water. Among the small growing kinds, *Festuca glauca* has no equal and the giant reed *Arundo donax* will grow 12 to 20 feet high.

Similar in general habit to the *Helianthus*, but commencing to flower earlier, are the *Heliopsis*. They rarely exceed three feet in height and are very valuable for cutting. *Pitcheriana*, *scabra*, *zinniaflora* and the new variety *excelsa* are some of the best varieties. The golden yellow *Hypericum Moserianum* is a most desirable border plant of graceful habit, with stems drooping apparently from the weight of the flowers and buds. The new variety *Hypericum patulum* variety *Henryi* promises to be a very desirable addition to our yellow-flowered shrubs.

Lobelia cardinalis and *syphilitica hybrida* (a selection of our native *lobelia*) if planted in a moist, deep loam, are effective in September. *Lythrum alatum*, a compact plant, with crimson purple flowers, has just finished blooming. *Montbretias* are amongst the brightest of the late summer flowering bulbs, and deserve to be planted extensively and protected in winter. *Platycodons* (blue and white) with cupped, star-shaped flowers, are closely allied to the campanulas, and when they are established each plant will have ten or twelve stalks of lovely flowers and remain in flower a month. *Pyrethrum uliginosum*, the Giant Daisy, has flowers of glistening white on stems four to five feet high, and is most useful for cutting. The Golden Glow are about gone; but *Rudbeckia purpurea*, and the new variety *tubiflora*, with their peculiar reddish purple flowers with remarkably large cone-shaped centers of brown are still in their autumn glory.

The Rocky Mountain *Salvia azurea*, with sky-blue flowers, and the much-admired variety *Pitcheri*, which has larger flowers of a rich gentian-blue color, also the new *Salvia Uliginosa*, a stronger grower than the previous ones (growing five to six feet high and producing freely flowers of a corn-flower blue, with a white throat) are all splendid acquisitions in the autumn border. The carmine-colored flowers of *Salvia Greggii* (a native of the mountains of Texas) are particularly bright from August on.

Senecio pulcher forms a neat tuft of foliage, from which spring up—from July to October—stems carrying clusters of rosy purple flowers. To those of you who have grown the large round-leaved *senecios* of heavy stem and have, after a trial, consigned them to the bog, or the border of a lake, I would recommend this variety. *Silphium perfoliatum*, with its large single yellow flowers, is a good subject for the shrub border. *Solidago* (or golden rod) has finished blooming. I

(Continued on page 524)

BULBS and BOXWOOD at AUCTION

MAMMOTH SHIPMENTS OFFERED EACH TUESDAY and FRIDAY

AT TEN O'CLOCK, A. M.

ALSO LOCAL CONSIGNMENTS OF

**Palms, Ferns, Dracaenas, Rubbers, etc., to be offered in lots
to suit the large and small buyer**

Send for weekly auction catalogue.

The MacNiff Horticultural Co.

52 to 56 Vesey Street, NEW YORK

THE LARGEST HORTICULTURAL SALESROOMS IN THE WORLD

TREES

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties. Sturdy, choice stock that can be depended upon. Send for catalogue and special trade prices.

The Bay State Nurseries

North Abington
Mass.

SHRUBS

This New England and climate produces fine sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate.

BAILEY'S NEW STANDARD Cyclopedia of Horticulture

Six large quarto volumes. More than 3,600 pages. 24 exquisite full-page color plates. 96 full-page sepia halftones and more than 4,000 text engravings. 500 collaborators. Approximately 4,000 genera, 15,000 species and 40,000 plant names.

The new Standard Cyclopedia of Horticulture has been freshly written in the light of the most recent research and experience. It is not merely an ordinary revision or corrected edition of the old Cyclopedia, but it is a new work from start to finish with enlarged boundaries geographically and practically; it supersedes and displaces all previous editions or reprints of every kind whatsoever. It is both an Encyclopedia and a Manual, for with the aid of its Synopsis and Key, amateur and professional alike may quickly identify any plant, shrub or fruit contained within the set, and then receive expert instructions for its cultivation. Price \$6.00 per volume. Five volumes have now been issued and the others will follow in succession. Order from

HORTICULTURE PUBLISHING CO.

147 Summer Street, Boston, Mass.

REMEMBER!

If it's a Hardy Perennial or so called Old Fashion Flower worth growing, we have it in one shape and another the year round. We have the largest stock in this country, all made in America, and our prices

will average 75c. per doz., \$5.50 per 100.

Why say more here? Send for our Wholesale Price List of varieties and benefit from the opportunities this affords you. Address

PALISADES NURSERIES, Inc.

R. W. CLUCAS, Manager.

SPARKILL - - - N. Y.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St. Woburn Heights P. O. No. 1, Hoboken N. J.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY. Small, medium and large sizes supplied. Price list now ready.

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers in America.

BOX 415, DUNDEE, ILL.

When writing to advertisers kindly mention HORTICULTURE.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

HATBORO, PA.

In Stock ROSE STAKES

EXTRA STIFF No. 9 GALV. WIRE

4½ feet—\$13.05 per 1000

CARNATION SUPPORTS

\$18.00 per 1000 plants.

THE CARNATION SUPPORT CO., Connerville, Ind.

ROBERT CRAIG CO., ROSES, PALMS,

and Novelties in Decorative Plants

MARKET and 49th STREETS, PHILADELPHIA, PA.

HYDRANGEA OTAKSA & AVALANCHE

Field grown plants, ready for 6-inch pots; \$14.00 per 100.

ANGLIN & WALSH CO.

W. Liamsbridge, N. Y.

BOBBINK & ATKINS

Nurserymen, Florists
and Planters

RUTHERFORD, NEW JERSEY

FIRST IMPORTATION Boxwoods, Rhododendrons, Evergreens, Etc. Bulbs of every description

JOHNSON & MILLANG, Inc., Auctioneers
Coogan Building, 55-57 West 26th Street, New York
(Under Cut Flower Exchange)
Monster Auction Sales Every Tuesday and Friday at 10 A. M.
10,000 square feet devoted to our auction business
WRITE FOR CATALOGUE

CLUBS AND SOCIETIES

JOINT MEETING OF INDIANA AND KENTUCKY FLORISTS.

On October 17th there will be a joint meeting of the State Florists' Association of Indiana and The Kentucky Society of Florists, including ladies, at the establishment of Anders Rasmussen, New Albany, Ind. October 18th will be spent in sight seeing, pleasure and the afternoon at the establishment of the William Walker Company, at Ormsby Station, Ky. The business session will be most important. Many interesting questions will come up and A. F. J. Baur will read a paper on and lead the discussion on "False Economy." The Hotel Henry Watterson has been designated as headquarters, and at 7 P. M. on Tuesday a banquet will be served, with the following program: Address of Welcome—President Kleinstark, Kentucky; response—President Vesey, of Indiana; toast—"Our Honored Guests," William Mann, Kentucky; toast—"Goodfellowship," W. W. Coles, Indiana; toast—"The Ladies," August R. Baumer, Kentucky; toast—"The S. A. F. and O. H.," Irwin Bertermann, Indiana; toastmaster—Anders Rasmussen, Indiana and Kentucky. From the close of the banquet until 12 o'clock, dancing.

On Wednesday at 8.30 A. M. there will be bowling contests between Indiana and Kentucky teams; individual contests for ladies and gentlemen. At 1.30 P. M. interurban cars will leave for a visit to the William Walker Company establishment at Ormsby Station, Kentucky, where the afternoon will be spent in looking over the Walker plant, and in games of different kinds. Prizes for the bowling contests and the games have been donated by many friends in all branches of the trade. For further information ask any member of the Kentucky Society or write the Secretary, August R. Baumer, Masonic Temple, or P. O. Box, 295, Louisville, Ky.

FLORISTS' CLUB OF WASHINGTON.

At the regular meeting of the Florists' Club there was displayed a vase of "Mrs. Charles J. Bell," a new rose, a sport from Radiance, by John Anderson, gardener for Mrs. Bell. Mr. Anderson said that he has had it for three years. It is flesh pink, flowers freely and is very fragrant. He said that it is splendid for both outdoor and indoor production, and it does not fade when full open.

A resolution was adopted extending sympathy to J. J. Brickings and hope for an early and full recovery from injuries sustained by him when a street car struck the wagon he was driving and caused him to be confined to a hospital for a number of weeks.

Meetings Next Week

Monday, Oct. 16.

Detroit Florists' Club, Bomb Floral Hall, Detroit, Mich.
Houston Florists' Club, Chamber of Commerce Rooms, Houston, Tex.
New Jersey Floricultural Society, Orange, N. J.

Tuesday, Oct. 17.

Gardeners' and Florists' Club of Boston, Horticultural Hall, Boston, Mass.
Gardeners' and Florists' Club of Ontario, St. George's Hall, Toronto, Can.
Minnesota State Florists' Association, Minneapolis, Minn.
Pennsylvania Horticultural Society, Horticultural Hall, Philadelphia, Pa.

Wednesday, Oct. 18

Rhode Island Horticultural Society, Public Library, Providence, R. I.
Tarrytown Horticultural Society, Tarrytown, N. Y.

Thursday, Oct. 19.

Essex County Florists' Club, Krueger Auditorium, Newark, N. J.
New Orleans Horticultural Society, Association of Commerce Bldg., New Orleans, La.
North Westchester County Horticultural Society, Mt. Kisco, N. Y.
Tacoma Florists' Association, Macabro Hall, Tacoma, Wash.

Friday, Oct. 20.

North Shore Horticultural Society, Manchester, Mass.

NEW YORK FLORISTS' CLUB.

There were over one hundred members in attendance at the meeting of the New York Florists' Club on Monday evening, October 9. A general discussion of matters relating to the coming S. A. F. Convention was the main business of the evening. All were enthusiastic, although the date is still far off and other big events will claim attention in the meantime. The most interesting feature was Secretary Young's detailed report on the Convention Garden which is being prepared in the Bronx Park Botanical Garden under the supervision of Dr. N. L. Britton, director-in-chief of the garden. The tract assigned to the Convention plantations comprises about six acres. It is splendidly located and plantings may be arranged for now if desired. W. A. Manda followed with a fervent address on the same subject.

Speeches were made by the newly initiated members, Winfried Rolker, Clifford Lowther and Henry Schmidt, in a style that assures a substantial augmentation of the club's oratorical resources. A red-hot speech by Jos. Manda in favor of a "ladies' night" was received with vociferous approval and the November meeting will be "ladies' night" accordingly, the committee in charge being Jos. Manda, boss, A. L. Miller, Emil Schloss, Jasper Lewis and R. J. Irwin.

Resolutions on the death of W. F. Kasting and Wm. Tricker were adopted as follows:

WHEREAS, It is incumbent upon the New York Florists' Club to record the death of one of its most esteemed members in the person of William Tricker, of Arlington, N. J., who has been called from its membership;

BE IT RESOLVED, That the Club, realizing the loss to American horticulture sustained in the death of Mr. Tricker, in this resolution expresses its deep regard for the deceased, particularly as to his work among aquatic plants, and for his charming personality in his intercourse with his brother horticulturists. The new varieties of plants which he introduced, and his improvements of existing types, will perpetuate his memory, and add to the lustre of our membership roll, of which he was ever most solicitous.

BE IT FURTHER RESOLVED, That this resolution be entered upon our minutes, and that a copy be transmitted to the deceased's family with whom the Club expresses its deepest sympathy.
Signed: C. W. Knight, Peter Duff, Chas. H. Totty.

WHEREAS, We, the members of the New York Florists' Club, are deeply touched by the sudden death of our friend and fellow member, William F. Kasting, who was stricken at the height of his activities.

RESOLVED, That we take this opportunity of expressing our profound sympathy with the family of our deceased fellow member, in their recent bereavement. The community in which he lived, the many societies and associations of men with which he was actively identified, have sustained a signal loss by his demise. His success in life was achieved by the observ-

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Public notice is hereby given that J. E. Yeats of Champaign, Illinois, offers for registration the new rose described below. Any person objecting to the registration or to the use of the proposed name, is requested to communicate with the secretary at once. Failing to receive objection to the registration same will be made three weeks from this notice.

Description—"A chance Seedling." Growth rapid, heavy, throwing long shoots from near the ground, needs little if any tying; early continuous bloomer. Foliage—medium, heavy, glossy dark green. Height—stems eighteen inches to four feet. Color—real red velvety. Flower—petals large and thick, large pointed buds opening into a full evenly petaled rose. Fragrance—very dense, fruity fragrance. Name—Mrs. Sarah Yeats.

JOHN YOUNG, Sec'y.

Oct. 7, 1916.

ance of strict integrity, persistent industry, and the Golden Rule, together with a lovable loyal nature that won him friends in all walks of life. His many acts of charity, privately bestowed were known only through the recipients. These and the friends that knew him and loved him, for what he was, will cherish his memory.

RESOLVED, That the resolutions be spread upon the Minutes of the Club and a copy sent to the family of the deceased. Signed: Walter F. Sheridan, Frank H. Traendly, Patrick O'Mara.

The judges made report on the evening's exhibits as follows: Chrysanthemum October King, by Chas. H. Totty, commercial scale, 85 points, exhibition scale, 88 points; Early French varieties, Nonine novelties, cultural certificate; seedling cactus dahlia from Fred Utter, honorable mention; dahlias from P. W. Popp, cultural certificate; chrysanthemum Alex. Guttman from Frank Dinda, vote of thanks; red seedling dahlia from Chas. Weber, very highly commended.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The annual Dahlia Show of the Nassau County Horticultural Society held at Glen Cove, N. Y., Oct. 5th, was a most decided success from both a financial and a horticultural viewpoint. The exhibits were of the very highest quality and in almost all classes competition was very keen. The Dreer cup which for collection of dahlias, 25 varieties, brought forth four exhibitors, each with a top-notch collection. The judges finally awarded the prize to W. R. Coe (Joseph Robinson, gard.), with W. J. Mathieson (James Kirby, gard.), 2nd. The E. M. Townsend cup for collection of outdoor roses was won by Harold Pratt (F. O. Johnson, gard.), John Pratt (John W. Everitt, gard.), 2nd. The North Shore Garden Club silver basket for collection of outdoor flowers was awarded to George D. Pratt (John F. Johnstone, gard.), C. F. Cartledge (William Noonan, gard.), 2nd. The F. S. Smithey cup for gladioli was captured by Mrs. Darlington (P. W. Popp, gard.).

The class for collection of vegetables was one of the most attractive features. There were three exhibitors and so evenly matched that in the final scoring only eight points separated the winner from the second man, while the third entry was only twenty points behind. Percy Chubb (Robert Jones, gard.) was 1st and W. R. Coe, 2nd. The Hitchings cup for outdoor fruit was won by Herbert Pratt (Henry Gaut, gard.) with a superb collection. The dinner tables was another attractive feature. There were seven entries and the honors were carried off by Joseph Adler, Henry Gaut and Herman Miller in the order named.

Mills & Co. of Mamaroneck were awarded a certificate of merit for a large collection of dahlias and C. F. Cartledge received the same award for three vases of seedling dahlias. Mrs. Darlington received a certificate of culture for a vase of gladioli. Other winners in addition to those mentioned were C. D. Smithers, gard. Pierre Charboniad; G. D. Barron, gard. James Linane; W. E. Kimball, gard. Jas. McCarthy; J. R. Maxwell, gard. S. J. Trepass; Wm. Beard, gard. H. Miller, and Frank Petrocchia.

The judges of the exhibition were Thomas Atchison, William Robertson and James Stuart, and many flattering

ing comments were made on the thorough and capable manner in which they performed their duties.

JAMES MCCARTHY, Cor. Sec'y.

NARCISSUS

Paper White Grandiflora

13 cm. and up

We have a few more cases on hand and offer these extra quality bulbs at \$12 per 1000; \$15 per case of 1300.

HOGEWONING & SONS

RYNSBURG, HOLLAND
32 Broadway New York

Coming Exhibitions

Oct. 26-27, Madison, N. J.—Twenty-sixth Annual Flower Show, Morris County Gardeners' and Florists' Society, James Assembly Hall.

Oct. 27-29, Mount Kisco, N. Y.—Fall show of the Northern Westchester County Hort. and Agri. Soc.

Oct. 31-Nov. 1, Greenwich, Conn.—Fall Flower, Fruit and Vegetable Show of the Westchester and Fairfield Horticultural Society.

Nov. 1-5, Boston.—Grand Autumn Exhibition of Plants, Flowers, Fruits and Vegetables, Massachusetts Horticultural Society, Horticultural Hall.

Nov. 1 to 3, Tarrytown, N. Y.—Chrysanthemum show of the Tarrytown Hort. Soc. in Music Hall.

Nov. 2-3, New Bedford, Mass.—New Bedford Horticultural Society, Annual Chrysanthemum Show.

Nov. 8, Philadelphia.—Chrysanthemum Society of America in conjunction with Pennsylvania Horticultural Society.

Nov. 8-10, New York.—Annual Chrysanthemum show of the American Institute, Engineering Society Bldg., 25-33 W. 39th St., New York.

Nov. 9-10, Bloomington, Ill.—Fall Flower Festival, Illinois State Florists' Association.

Nov. 9-11, Lancaster, Pa.—Fall flower show.

Nov. 9-12, New York.—Fall exhibit Horticultural Society of New York at Museum of Natural History.

Nov. 11-19, New Orleans, La.—Flower show.

Nov. 14-15, Providence, R. I.—Flower show of R. I. Hort. Soc.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The October fruit and vegetable exhibition of the Massachusetts Horticultural Society was held in Horticultural Hall, Boston, on October 7 and 8. Among the prize winners were T. T. Watt, who showed some Chinese yams, South American papaws and a bird of paradise flower; Mrs. Ivan Panin, English walnuts; J. A. Nixon and Mrs. F. C. Upham, culinary herbs.

Chairman Edward B. Wilder of the committee on fruits said that the exhibit of pears was better than in many years. David R. Craig showed a fruited branch not more than four feet long, bearing at least 115 seckels. Mrs. H. F. Fay showed some Peasgood Nonesuch apples, weighing a pound, grown on trees about five feet high; R. E. Welch, a King of the Mammoths squash, so large that a man's arms cannot meet around it; and T. D. Hatfield some beans of an unknown variety, raised from seed found in the crop of a duck shot at Southboro. Dr. F. S. DeLue won a silver medal for his hybrid corn.

Mt. Desert Nurseries were given honorable mention for a superb display of hardy asters and other herbaceous flowers. R. W. Swett vote of thanks for Gladiolus Sherman Sweet.

The distinctions were divided as follows: Three votes of thanks, three honorary mentions, 12 gratuities, 125 prizes, one medal.

H. V. Soule won the second prize, \$20 in gold, for decorated auto at the New Bedford, Mass., carnival last week.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Belgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending Sept. 29, were recorded as follows:

Bulbs—France, \$7,524; Italy, \$15; Netherlands, \$256,371; England, \$3,898; Bermuda, \$298; Hongkong, \$2,661; Japan, \$4,287.

Plants—Bermuda, \$114; Colombia, \$800; Venezuela, \$337; France, \$82; Netherlands, \$383.

Red clover seed—France, \$6,552; Russia, \$5,756.

Clover seed—France, \$15,730.

Grass seed—England, \$134; Ireland, \$2,100; New Zealand, \$197.

Other seeds—England, \$1,295; British East India, \$1,807; Hongkong, \$258; Japan, \$14; Cuba, \$250; China, \$29; Canary Islands, \$323.

Nitrate of potash—Dutch East Indies, \$43.

Nitrate of soda—Chile, \$177,818.

Cable news tells us that the Holland gladiolus crop is a failure this year.

PUBLICATIONS RECEIVED.

The Forty-Sixth Annual Report of the Wisconsin State Horticultural Society is received from Secretary F. Cranefield. It is to be especially commended for the diversity and general usefulness of its contents. In addition to the usual reports and papers appertaining to fruit culture which too often monopolize the pages of state horticultural documents this bound volume of 126 pages devotes a fair share of the space to papers on the beautifying of home grounds, shade trees, annual flowers, etc., lists of trees and shrubs that are reliable in Wisconsin, spring flowering bulbs, etc., a black list of shrubs that cannot be depended upon, remedies for the control of plant diseases and insects, spraying tables, etc., all of which goes to make up a book, a copy of which should be in every household in the state. There are several pages of illustrations and it is nicely gotten up throughout.

Bulletin of the New York Botanical Garden, Vol. 9, No. 34. This publication issued under date of September 21, 1916, will be found very interesting and very useful for anyone wishing to acquire some definite knowledge of the layout of the grounds and the various departments of this important and rapidly developing institution. This volume, comprising 112 pages, is issued as a descriptive guide to the grounds, buildings and collections, bringing right up to date the contents of previous issues of like character. It is embellished with numerous full-page half-tone views of much beauty showing the buildings and gardens and the diversified natural attractions of the 400 acres of

The Sensational Pink Sweet Pea YARRAWA

BRIGHT ROSE-PINK

This variety leads all others for color, size of bloom, length of stem and long flowering period. Order the original stock from Boddington's and increase your profit.

Arthur T. Boddington Co., Inc.,
128 Chamber St., New York.

Inclosed is list of Sweet Peas to be sent at your earliest convenience.

Perhaps it would interest you to know what result I had from one ounce of Yarrawa last winter. It bloomed continuously from Feb. 15th until the end of June and netted \$77.50, none being sold for more than \$1.00 per 100.

If you know of anyone doing better kindly let me know.

Yours truly,

(Signed) THOMAS DUKE.

R. F. D. 1, Troy, New York, July 15, 1916.

Australian Seed, oz. \$2.00, ¼ lb. \$7.00, lb. \$24.00, 5 lb. \$110.00

Californian Seed, 1.65, 2.25, 8.00, 37.50

5 per cent. discount, cash with order

[Catalogue of Seasonable Seeds and Bulbs free on request

ARTHUR T. BODDINGTON CO., Inc.

128 Chambers Street, New York



SEEDS for the FLORIST

ASTERS QUEEN of the MARKET.

The best extra early variety, large, double flowers, on long stems, in colors: Crimson, Dark Blue, Light Blue, Rose Peach Blossom, White.

Trade Packet, 20c., Oz., 75c.

Sweet Peas, Cyclamen, Primulas, Lily of the Valley, from Our Own Cold Storage Plant.

Our Trade List Mailed on Application.

FOTTLER, FISKE, RAWSON CO., THE SEED STORE **BOSTON**
Faneuil Hall Square

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

reservation in the northern part of Bronx Park devoted to the Botanical Garden. There are also a number of diagrams and a map of the grounds.

Massachusetts Agricultural Experiment Station. Part 1 of the Annual Report of the Station, devoted to the report of the director and other officers.

Harvard College, School of Landscape Architecture. Official Register, Statement of Courses in detail, etc., 60 pages.

CATALOGUE RECEIVED.

Harlan P. Kelsey, Salem, Mass.—Hardy American Rhododendrons and Specimen Evergreens.

Keene, N. H.—Thomas H. Northway has bought the greenhouses and business of L. P. Butler & Co., which has been sixteen years established. Mr. Northway has been in charge upon a large estate in Dublin and before that on estates near Boston.

Mitchell's Distinctive Seeds
Catalogue free
518 Market St. — Phila.

Lilium Harrisii Bulbs

	Per 100	Per 1000
5 in. to 7 in.	\$5.00	\$40.00
7 in. to 9 in.	9.00	80.00
9 in. to 11 in.	22.00	

FREESIA REFRACTA ALBA

	Per 100	Per 1000
Mammoth Size	\$1.75	\$12.00

For Immediate Delivery

**PAPER WHITE NARCISSUS
GRANDIFLORUS**

Prices on Application

J. M. THORBURN & CO.

53 Barclay Street
Through to 54 Park Place
NEW YORK CITY

KELWAY & SON

SPECIALIZE IN

SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or
Forward

Only Address, LANGPORT, Eng

Burpee's Seeds**PHILADELPHIA**

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

J. BOLGIANO & SON**WHOLESALE FIELD AND GARDEN SEEDS**

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragons on
the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.**PHILADELPHIA, PA.**

My new Price List of

**WINTER-ORCHID-FLOWERING SWEET
PEA SEED**

Has been mailed. If you have not received
a copy, send me postal. Part of new crop
will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

THOMAS J. GREY COMPANY**SEEDS, BULBS AND IMPLEMENTS
WHOLESALE AND RETAIL.**

Reselected Strains in Seeds.

Improved styles in Implements.

Catalogue upon application.

29 So. Market Street
BOSTON, MASS

**FARQUHAR'S GOLD MEDAL
CYCLAMEN**

Awarded Gold Medal of
the Massachusetts
Horticultural Society

Strong Plants from
4 inch pots, for
delivery now, at
\$25.00 per 100.

R. & J. FARQUHAR & CO., 6 South Market Street
BOSTON

LEONARD'S SEEDS**and SEED SERVICE**

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.**AMERICAN BULB COMPANY****172 N. Wabash Ave.****CHICAGO, - ILL.**

We are now ready to book orders for French and Dutch
Bulbs, Lilies and other Florists' Necessities.

WRITE US FOR PRICES**POINSETTIAS****August Shipment**

True type, fine 2½ inch plants, shipped in
paper pots, \$6.00 per 100, \$50.00 per 1000.

A. HENDERSON & CO.

211 N. State St.

CHICAGO, ILL.**NEW CROP SEEDS**

PANSY SEED. Giant flowering florist mix-
ture. American grown. (Best money can
buy.) 50c. per tr. pkt., ¼ oz. \$1.50, oz. \$5.00.
PANSY SEED SPECIAL. Greenhouse mix-
ture for forcing; long-stemmed. \$1.00 per
tr. pkt., ¼ oz. \$1.50, ¼ oz. \$2.50; oz. \$8.00.
SWEET PEAS. Zvolanek's Orchid Flower-
ing in all varieties. I have his agency
this season.

ROMAN J. IRWIN,

Plants, Cuttings, Bulbs, Seeds.

108 West 28th Street - New York.

When writing to advertisers kindly
mention **HORTICULTURE**.

**LILIAM FORMOSUM
LILIAM HARRISII
LILIAM GIGANTEUM**

Prices on Application. Write for 1916
Bulb Catalog.

JOSEPH BRECK & SONS' CORP.
47-54 North Market St., Boston, Mass.

W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries

166 W. 23rd St., NEW YORK**BURNETT BROTHERS**

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

Penn
The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.
BOSTON

FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

MAX SCHLING

22 West 59th St.

Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

The **Park Floral Co.**

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or **OUT-GOING STEAMERS**

Write or Telegraph

2139-2141 Broadway, New York
Telephone 1553-1554 Columbus

Of Interest to Retail Florists

NEW FLOWER STORES.

San Francisco, Cal.—Avensino Bros.,
182 Geary street.

Mansfield, O.—Stuhldreher Bros.,
West 4th street.

Harrisburg, Pa.—S. S. Speese, 202
Chestnut street.

Buffalo, N. Y.—Allen Flower Shop,
Allen, near Pearl street.

Orosi, Cal.—Mrs. Edith Brewer,
Haden & Boone Building.

West Philadelphia, Pa.—Burton &
Rone, 60th street and Gibson avenue.

Hagerstown, Md.—Wallace R. Brew-
er, Humbrichouse Building, Public
square.

Indianapolis, Ind.—Hensley Flower
Shop, succeeding Reynolds Flower
Shop.

Chicago, Ill.—Ridge Ave. Florists,
Ridge and Glenwood Aves., Peter
Doemick, Prop.

Pittsburgh, Pa.—M. F. Stafford, 105
Smithfield street. Fox's Flower Shop,
208 Smithfield street.

New York, N. Y.—N. A. Doganges,
removing to 2685 Broadway. Central
florist, 2578 Broadway.

Providence, R. I.—Strand Flower
Store, A. M. Cassidy, proprietor. Wm.
A. Bower, Fountain street.

St. Louis, Mo.—Ben Ablels, Jeffer-
son and Gravois Ave. Fred Foster, re-
moving to 703 Olive street.

Detroit, Mich.—Grand River Flower
Shop, Grand River avenue. J. Breit-
meyer's Sons, Jefferson avenue.

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspond-
ence in all the large cities of Europe and the British
Colonies. Telegraph and Cable address Dardsflor

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. BOSTON

Telephone Main 58.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good
sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery
Association.



GUDE BROS CO
1214 F ST NW
WASHINGTON DC

GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE National Capital

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

J. B. KELLER SONS,
FLORISTS

25 Clinton Avenue, N.

Rochester Phone 306. Long Dist. Bell Phone 2780
Members Florists Telegraph Delivery

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction

MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1836 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1832.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Member Florists' Telegraph Delivery Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State
St.
Albany, N. Y.—The Rosery, 23 Steuben
St.
Albany, N. Y.—William C. Gloeckner, 97
State St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont
St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.
Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Fetters Co.,
735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643
Broadway.
Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Mad-
ison Ave., at 52d St.
New York—David Clarke's Sons, 2139-
2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.
New York—Dards, N. E. corner 44th St.
and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stump, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 48th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.
Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—H. F. A. Lange.
Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

REUTER'S

Members Florists
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.



KERR ORDERS FOR TEXAS
The Florist HOUSTON, TEXAS
Member F.T.D. Association

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

The Women's Outdoor Art League is mailing price lists of the bulbs for fall planting to club women and others.

Poehlmann Bros have an addition of 5,000 orchid plants to their stock, the work of their collector in the Philippines.

Geo. W. Kay, of the Kay-Diamond Co., Youngstown, Ohio, arrived several days in advance of the Florists' Telegraph Delivery Convention, which he is attending.

Wm. Graham, manager of the Fleischman Floral Co., is visiting his daughter in N. Y. City after which he will go to Philadelphia where his son Hugh is to be married.

Allie Zech received a telegram announcing the death of Andrew Bather of Clinton, Iowa. He was one of the most prominent men in the retail trade in that city. Two sons and a daughter are connected with the store.

Duncan A. Robertson, who left Chicago for his home city, Boston, three years ago, is now back and is manager of O. Friedman's store on Michigan Ave. Mr. Robertson has made several changes in the store, all of which mean greater efficiency in handling their trade.

PITTSBURGH.

John H. Yeaton of Philadelphia has entered upon his duties as bookkeeper for G. P. Weaklin & Co.

The Liberty Florists' shop has recently been converted into a literal autumn bower through the artistic arrangement of quantities of golden rod, sumach and cat-tails.

The Ernest C. Ludwigs have reopened their North Side home after spending their summer on their farm. Edward Earl Ludwig, the younger son who graduated from the Agricultural School at Cornell last June, remains on the farm as superintendent.

Bamboos formed a dominating note in the decorations for the Pontefract-Charnley wedding at Sewickley Heights, last Saturday, which were furnished by Randolph & McClements. There was a background of the bamboos in combination with crotons and cibotiums, with a big bronze and wicker vase of yellow chrysanthemums on either side of the white satin prie dieu, to which an aisle led, marked by bronze-gold standards and blue ribbon. An orchestra in the hall was screened with bamboo, which was again used with discretion in the library, which was adorned with large clusters of American Beauties. Yellow orchids with yellow ribbon were used for the bridal (buffet) table. The bridal bouquet was formed of lilies of the valley and golden rosebuds, while cattleyas were carried by the matron of honor. A blue French basket of golden roses and forogot-me-nots was carried by the little flower girl.

BOSTON.

Welch Bros. Co., have completed their removal from 226 to 262 B. Devonshire street and are rapidly getting things into orderly ship-shape.

Edward Welch of Welch's has returned from a fourteen days' trip through the Provinces. He has also completed arrangements with some of the best commercial growers throughout New England for the handling of their stock and judging from the shipments of roses already received the stock will be of the first quality.

N. F. McCarthy of the Montrose Greenhouses and James Gray, a Cambridge man, have taken over the greenhouse plant formerly of Charles C. Ball, Inc., and will operate it as the Wakefield Conservatories. Minot H. Carter will be manager and his flower store at 376 Main street will be operated in connection with the enterprise.

Supervisor of Administration Burbank has made a report to Gov. McCall and the Council, recommending that they grant the request of State Forester Rane for an emergency appropriation of \$5000 to enable the State to continue its work against the spread of the white pine blister rust. The supervisor says there is danger of the ultimate destruction of much, if not all, white pine in Massachusetts. Continuing, he says the appropriation of \$5,000 would make it possible for the State Board of Agriculture to complete a survey of the State, thus determining what conditions now exist, and enable the officials of the State nursery inspection service to combat small outbreaks of the disease.

WASHINGTON, D. C.

Captain William H. Ernest has just returned from an extended trip South. He attended the Odd Fellows' convention in Chattanooga, and visited Chickamauga, Macon and other places, on a sightseeing trip.

Growers in Anacostia and points in Maryland report the loss of large quantities of dahlias by a frost said to have been the earliest in years to visit this section. The change was very sudden. Two days later, mid-summer weather prevailed.

Samuel Simmons, formerly in charge of the Leiter Estate, has accepted the position of manager of the business to be conducted by Mrs. S. P. Martin, of New York, at the Freeman greenhouses. It is said that these houses contain between 50,000 and 60,000 feet of glass. The crops will probably be marketed through one of the local exchanges.

Newark, N. Y.—Jackson & Perkins Co. have purchased the D. P. Smith farm of 170 acres, located about three miles from their Newark grounds, and will grow roses and general nursery stock.

NEW YORK.

Chas. H. Totty, John Young and W. P. Craig left for Chicago via the Penna Limited on Tuesday. After attending the Florists' Telegraph Delivery meeting in Chicago, they proceeded to St. Louis, where a meeting of the National Flower Show Committee was called for Friday, the 13th.

An interesting and very enthusiastic meeting of the International Flower Show Committee was held on Monday, October 9, at the Manhattan Hotel, Chairman Havemeyer presiding. Committees were appointed to take up the detail work of the show and all auguries are for a huge success. Contracts have been signed up with the International Exposition Co. for three years ahead, which is good evidence of the confidence now established in all quarters as to the future of the flower shows in New York.

CLEVELAND, OHIO.

The Cleveland Plant and Flower Co. have opened their spacious new store.

The Cleveland Florists' Exchange will put on a new delivery car this week.

Albert J. Heil, formerly with Jones-Russell Co., has taken a position at Kirchners as designer.

The Jones-Russell Co. opened on October 10 their submarine store which is a basement addition to their place where they display fancy baskets and pottery.

Last Thursday night about twenty of the Cleveland florists attended a Clam Bake at The Friedley Co.'s plant. As a host Frank Friedley outdid even himself on this occasion.

From a number of salesmen in town one would think there was a florists' supply house convention here. Among those present are A. L. Miller, Jos. Marks, Martin Reukauf, George Hampton and Sam Seligman.

In the near future Mrs. Ella Grant Wilson will give flower talks to the Mothers' and Garden Clubs of this city. The subjects will be: "A Touch of Refinement a Little Money Will Give the Home" and "What Ails My Plants."

F. J. RITZENTHALER.

PERSONAL.

John Hourehan, gardener of Ipswich, Mass., and Miss Margaret Crawford, of Milford, were married at Milford on October 4.

The marriage of Miss Jeannetta Drysdale, of Philadelphia, to W. Atlee Burpee, Jr., will be solemnized Wednesday, November 1st, 1916, at Saint James' Church, Philadelphia.

OBITUARY.

Andrew Bather.

The brief announcement in our Chicago notes this week of the death of Andrew Bather of Clinton, Iowa, is the only information that has reached us of the passing away of this well-known and respected florist.

BASKETS BASKETS BASKETS

BUY YOUR FALL SUPPLIES NOW

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Hampers and Flower Bowls

Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

SOMETHING ABOUT ACCEPTING DEBTORS' NOTES IN SETTLEMENT OF ACCOUNTS.

For a long time I have had on file a memorandum to write something about the loose practice of accepting the notes of a debtor in settlement of an account. Other things have heretofore crowded it out but the receipt of the following letter from a Cincinnati, Ohio, reader who does not wish his name disclosed, gives me the chance I have been waiting for:

Cincinnati, O.

We want some advice in advance about a situation that is likely to arise in the near future with one of our customers—a good buyer, but not always prompt in his settlements. On December 1st he owed us about \$500, most of which was considerably overdue. We had been after him to pay it without result, until about the middle of December he came in and proposed to give us a note in payment for three months, bearing interest. We accepted it, thinking it a good way to put the account on an interest basis, and now we hear that he is in a bad way and only those who get in early are likely to get anything. We would like to go after him right away, but the note is not due until March 16th, and it seems that we must hold off until that time. Please advise us if this conclusion is right and tell us if there is any way to get out of the situation we have placed ourselves in.

This is pretty nearly a typical case. The same thing is happening all the time. Both wholesale and retail dealers, especially the former, when some customer gets behind, will propose a note as the next best thing to cash. And the idea is all right, if it is carried out properly. The proper way to carry it out is never—where there is the slightest question about the present and future standing of the debtor—to accept the note in payment of the account. It should be accepted only as collateral security, with an agreement that in case it becomes necessary in the opinion of the creditor, the latter can immediately begin suit on the original account.

When a note is accepted in payment of the account, you have merely postponed payment that far ahead, and no

matter what happens to the debtor's finances meanwhile, you can only sit down and wait.

The average business man does not understand the difference between the two ways of accepting the note, and he therefore accepts it, as a rule, in a way which could easily be construed into an intent to take it in payment.

The creditor who takes a note in payment of an account is not only no better off than he was before, but he is really worse off because he cannot enforce his claim as soon as he could before he took the note. His original claim on the book account was just as clear and good, and almost as easily proven in court, as his new claim on the note. Therefore he gains nothing by changing the form of his claim from book account to promissory note, but as I have already said, he actually loses.

Everything depends on the way in which the note tendered in settlement is taken. The general rule is that a promissory note given in settlement of an account is not to be considered as having been accepted in payment unless there is an agreement to that effect between the parties. Usually there is never any actual agreement between a creditor and his debtor, that a note given by the latter shall be taken in payment or not in payment. The debtor, who is usually behind in his accounts or he wouldn't tender the note at all, says something like this: "I'll give you a note to fix up (or clean up, or settle, or cover) that account of mine." The creditor takes the note and later the court may have to decide what was meant by "fix up," or "clean up," or "settle," or "cover," or whatever the expression was. Remember that the agreement may be implied from the conduct of the parties, and if the court holds that the note was taken in payment it means that the old account is dead, suit can never be brought on it, the note has been substituted for it, and the only remedy is to try to collect that, which can only be attempted, as I have explained, when it comes due.

Where a note is taken without stipulations of any kind, there is al-

ways the chance that a court may decide in that way. There are many cases in which this made all the difference between losing the account and collecting it in full.

Even where it is clear that a note was not accepted in payment, but only as collateral security, the creditor will not usually be allowed to bring action on his original claim until the note comes due, because when he accepted the note he gave the debtor that much more time and the court will not allow him to go back on his promise.

What is the best way to safeguard one's self against such possibilities? There are two main ways:

First—Make the note payable on demand or at sight instead of at some future date. Such a note can be sued on at any time. Naturally the debtor will not always agree to this, for his reason for giving the note is to gain delay until some future time. He will often agree to it, however, when the creditor gives his word not to negotiate the note or do anything with it before a certain date unless it becomes necessary.

Second—If the note has to be made payable at a future time, then have the debtor sign a memorandum when he gives it that the note is for collateral security only, and granting permission to the creditor, before the note matures if he considers it necessary, to begin suit on the original account. If the creditor does begin suit on the original account before the note matures, he must first give the note back.

The only thing I can say to my friend from Cincinnati is that he can answer his question by applying what I have said above, to the facts of his own case. If he can prove that he did not take the note in payment—although in his letter he says that he did—he can proceed against his debtor at once on the original account. If he did take the note in payment—and the fact that it bears interest is strong evidence that he did—he must wait until its maturity, no matter what happens.

(Copyright, January, 1916, by Elton J. Buckley.)

FOUR ITEMS

We will be strong on for this week

**DAHLIAS
CATTLEYS VALLEY
BEAUTIES****THE LEO NIESSEN CO.**

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S
Wholesale & Commission Florists
FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

**EDWARD REID
WHOLESALE FLORIST**1619 - 21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers**REED & KELLER**
122 West 25th St., New York
Florists' SuppliesWe manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites**Wired Toothpicks**

Manufactured by

W. J. COWEE, Berlin, N. Y.10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.**E. G. HILL CO.****Wholesale Florists**
RICHMOND, IND.

Please mention Horticulture when writing.

**MICHIGAN CUT FLOWER
EXCHANGE, Inc.**WHOLESALE COMMISSION FLORISTS
Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 3860 Madison Square

WOODROW & MARKETOS
WHOLESALE**Plantsmen and Florists**

37 and 39 West 28th St., NEW YORK

**POEHLMANN BROS. CO.***Supply of Best Cut Flowers all the Year Around*
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

**WELCH BROS. CO. Wholesale Cut
Flower Market**

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262 B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268**WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100
TO DEALERS ONLY**

	BOSTON October 11		ST. LOUIS September 19		PHILA. October 9	
Roses						
Am. Beauty, Special.....	25.00	to 35.00	15.00	to 25.00	25.00	to 35.00
" " Fancy and Extra.....	15.00	to 20.00	8.00	to 10.00	15.00	to 20.00
" " No. 1 and culls.....	3.00	to 8.00	1.00	to 5.00	8.00	to 10.00
Russell, Hadley.....	2.00	to 12.00	5.00	to 10.00	6.00	to 20.00
Killarney, Hillingdon, Ward, Extra.....	4.00	to 8.00	5.00	to 8.00	.....	to 8.00
" " Ordinary.....	1.00	to 2.00	3.00	to 4.00	.....	to 4.00
Arenburg, Radiance, Taft, Key, Extra.....	3.00	to 8.00	.....	to 12.00	.....	to 12.00
" " Ordinary.....	1.00	to 2.00	.....	to 4.00	.....	to 4.00
Ophelia, Mock, Sunburst, Eder, Extra.....	3.00	to 8.00	5.00	to 8.00	.....	to 12.00
" " Ordinary.....	1.00	to 2.00	.....	to 3.00	.....	to 5.00
Carnations	2.00	to 3.00	2.00	to 3.00	2.00	to 4.00
Cattleyas	30.00	to 40.00	30.00	to 40.00	.....	to 50.00
Dendrobium formosum.....	.....	to 12.00	.....	to 12.50	.....	to 12.00
Lilies	8.00	to 12.00	4.00	to 5.00	4.00	to 6.00
Lily of the Valley	4.00	to 6.00	3.00	to 4.00	4.00	to 8.00
Snapdragon	1.00	to 4.00	3.00	to 4.00	.....	to 4.00
Gladioli	1.00	to 2.00	1.00	to 2.00	3.00	to 6.00
Chrysanthemums	1.00	to 2.00	.....	to 1.25	.....	to 1.00
Dahlias	2.00	to 25.00	.....	to 1.00	15.00	to 39.00
Gardenias.....	.....	to 1.00	.....	to 1.25	.....	to 1.00
Adiantum	12.00	to 20.00	12.00	to 15.00	8.00	to 12.00
Smilax	20.00	to 35.00	25.00	to 50.00	20.00	to 50.00
Asparagus Plumosus, & Spreng. (100 Bchs.).....	.....	to 35.00	.....	to 50.00	.....	to 50.00

WILLIAM F. KASTING Co.
Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A SpecialtyWHOLESALE
GROWER of**CUT FLOWERS**

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

The trade keeps on "an even keel" at present with little or no change of importance in conditions or values since last week. Quality has improved on everything, especially roses. Carnations are daily increasing. Chrysanthemums are excellent with prospects of an increased cut presently. Violets are very poor as yet, but yellow daisies which have just started are extra good, bringing \$1.50 to \$2.00 per 100. Gladioli are gradually getting down to the gleanings and dahlias have practically vanished as have also the asters. Lilies are in short supply. Lily of the valley is good.

The market is cleaned up daily. Business has been good and the supply of roses has been good and they are now in winter form. The finest Ophelia, Shawyer, Hadley, Queen, Sunburst, Killarney, Ward and White Killarney are seen and have had excellent sales. Golden Glow is the only variety in yellow chrysanthemums, Smith's Advance in white and Nogoya in pink. Lily of the valley has a good demand. Some good asters are still seen. Dahlias from eastern sections are coming in and clean up at good prices.

Conditions are improving. A large supply of roses is coming each week and so far the demand has been sufficient to use them all to advantage. American Beauties are comparatively plentiful, especially in the long lengths. Of the medium and short ones there are more to spare. A very few carnations are seen that have long stems and they would not be considered long later in the season, but so far nearly all have been cut very short, even when the blooms average of good size. Lilies continue very scarce indeed. Lily of the valley about equals demand. Chrysanthemums are still coming slowly, the early yellow ones being about over; white predominates, but another week is expected to bring out some of the other varieties. Quantities of short-stemmed asters are being shipped from Michigan into this market, some of which are good enough to sell for two dollars per 100, but many more for less. There is a good variety in green, common ferns selling for \$1.50 per 1000. Frost has not killed the prairie flowers. One wholesaler remarked that he had never before sold so many "weeds" in a season. The wild asters in white and lavender are especially fine just now and are small enough to make a good filler with larger flowers for bouquets.

RUSSELL

Our growers, realizing what a superb (every day in the year) Rose, Russell is, have planted much heavier this season and are cutting freely some wonderfully choice blooms.

	100
Special	\$20.00
Fancy	15.00
Extra	12.00
First	10.00
Second	6.00

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI October 9		CHICAGO October 9		BUFFALO October 9		PITTSBURG October 9	
Roses								
Am. Beauty, Special.....	25.00	to 30.00	30.00	to 40.00	20.00	to 25.00	25.00	to 35.00
" " Fancy and Extra.....	15.00	to 20.00	20.00	to 25.00	12.00	to 15.00	15.00	to 20.00
" " No. 1 and culls.....	5.00	to 10.00	8.00	to 12.00	4.00	to 10.00	8.00	to 12.50
Russell, Hadley.....	6.00	to 10.00	3.00	to 25.00	.....	to	4.00	to 12.00
Killarney, Hillingdon, Ward, Extra Ord.	6.00	to 8.00	6.00	to 10.00	6.00	to 8.00	8.00	to 12.00
Arenburg, Radiance, Taft, Key, Ex. Ord.	3.00	to 5.00	3.00	to 4.00	3.00	to 4.00	4.00	to 6.00
Ophelia, Mock, Sunburst, Euler, Ex. Ord.	3.00	to 8.00	8.00	to 12.00	8.00	to 10.00	8.00	to 12.00
Carnations.....	3.00	to 5.00	4.00	to 6.00	3.00	to 4.00	4.00	to 6.00
Cattleyas.....	6.00	to 10.00	6.00	to 10.00	6.00	to 8.00	8.00	to 12.00
Dendrobium formosum.....	8.00	to 3.00	2.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Lilies.....	50.00	to 75.00	60.00	to 75.00	50.00	to 60.00	50.00	to 60.00
Lily of the Valley.....	10.00	to 12.00	12.00	to 15.00	8.00	to 12.00	.....	to 12.00
Snape.....	6.00	to 7.00	3.00	to 5.00	5.00	to 6.00	6.00	to 8.00
Gladioli.....	4.00	to 6.00	.....	to	3.00	to 6.00	4.00	to 6.00
Chrysanthemums.....	3.00	to 4.00	.....	to	2.00	to 4.00	4.00	to 5.00
Dahlias.....	20.00	to 30.00	25.00	to 35.00	12.00	to 20.00	20.00	to 30.00
Gardenias.....	3.00	to 5.00	.....	to	2.00	to 4.00	4.00	to 6.00
Adiantum.....	.....	to 1.00	.75	to 1.00	1.00	to 1.25	1.00	to 1.25
Smilax.....	15.00	to 20.00	20.00	to 25.00	15.00	to 20.00	12.50	to 15.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 35.00	25.00	to 50.00	.....	to 35.00	35.00	to 50.00

Many dollars are added to the year's income by the gathering of the prairie flowers for the wholesale market.

The market in the CLEVELAND past week has shown a decided improvement. Dahlias and roses are coming in in very good shape. Lilies and chrysanthemums are to be had only in limited quantity. Kirchners have been cutting pink chrysanthemums the first of the season in these parts.

The optimistic feeling among the wholesalers and frequenters of the flower district is an encouraging sign for the trade outlook. The weather, clear and cool, has been very favorable for the roses, which are coming in more plentifully and are of very fine quality. Chrysanthemums are already dominating the market, variety and quality excellent. Violets are still of very poor quality and there is no demand for them. Cattleyas are again plentiful. Other standard flowers are normal in supply and demand.

Buying has continued brisk so notwithstanding the large increase in receipts, prices have kept pretty steady. All along the line there is a good demand, the best sellers being roses and lilies. Russells, Scott Keys, and Ophelias are especially fine and lead the procession although the Beauties are fine also and make a good running. Carnations have showed up better as to flower and stem and are gradually coming into their own again. The chrysanthemum is much more in evidence both as to quantity and quality. The leaders now are Unaka, Polly Rose, Tint of Gold and Smith's Advance. They have bloomed later than usual this year. Dahlias are still holding their own as a strong feature of the market. There is no oversupply of the high-class flowers but more than enough of moderate to poor stock. Asters and gladioli are both under grade and nearly over. They bring very poor returns in competition with other and stronger lines now before the buyers.

(Continued on page 519)

H. E. FROMENT
 Wholesale Commission Florist
 Choice Cut Flowers
 New Address, 143 West 28th St., NEW YORK
 Telephone: 2200, 2261, Madison Square.

HENTZ & NASH, Inc.
 Wholesale Commission Florists
 55 and 57 West 26th Street
 Telephone No. 755 Farragut
 New York

WM. P. FORD
 Wholesale Florist
 107 W. 28th Street, NEW YORK
 Telephone 5326, Farragut.
 Call and inspect the Best Establishment
 in the Wholesale Flower District.

GEO. C. SIEBRECHT
 WHOLESALE FLORIST
 109 WEST 28th ST
 CONSIGNMENTS SOLICITED
 PHONE {608} MADISON SQ., NEW YORK
 {609}

JOHN YOUNG & CO.
 WHOLESALE FLORISTS
 53 WEST 28th STREET NEW YORK CITY
 Consignments Solicited
 Phone 7368 Madison Square

THE KERVAN COMPANY
 Ferns, Mosses, Wild Smilax, Galax,
 Leucotheas, Palmetto, Cycas, both fresh
 cut and prepared.
 Laurel, Hemlock, all Decorative Evergreens.
 Tel. {1583} Mad Sq. 119 W. 28 St., New York
 {5893}

WILLIAM H. KUEBLER
 Brooklyn's Foremost and Best
 WHOLESALE COMMISSION HOUSE
 A First Class Market for all CUT FLOWERS
 78 Willoughby St., Brooklyn, N. Y

M. C. FORD
 121 West 28th St., NEW YORK
 FINE ROSES, FANCY CARNATIONS
 A Full Line of ALL CUT FLOWERS.
 Telephone 2870 Farragut.

GEORGE B. HART
 WHOLESALE FLORIST
 24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.
 Wholesale Commission
 READY FOR BUSINESS
 49 WEST 28th ST. NEW YORK.

P. J. SMITH
 WHOLESALE COMMISSION FLORIST SELLING AGENT FOR LARGEST GROWERS
 A full line of Choice Cut Flower Stock for all purposes.
 TELEPHONE {2281} FARRAGUT 131 West 28th St., NEW YORK CITY
 {3089}

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.
 WHOLESALE ONLY
 SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US
 Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
 THE HIGHEST VALLEY ALWAYS ON HAND
 GRADE OF GARDENIAS, DAISIES, ROSES, CARNATIONS
JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
 FARRAGUT-769

Centrally Located, The Hub of the Flower Market Section
CHARLES MILLANG
 Wholesale Florist
 55 and 57 W. 26th Street, - - NEW YORK
 Telephone 2483 Farragut

BADGLEY & BISHOP, Inc.
 WHOLESALE FLORISTS, 34 West 28th St., New York
 Telephones {1684} Madison Square {1685} CONSIGNMENTS SOLICITED
 NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Oct. 7 1916		First Half of Week beginning Oct. 9 1916	
American Beauty, Special	15.00	to 30.00	20.00	to 30.00
" " Fancy and Extra	10.00	to 15.00	10.00	to 15.00
" " No. 1 and 2 cuts	3.00	to 8.00	2.00	to 8.00
Russell, Hadley	2.00	to 10.00	2.00	to 10.00
Killarney, Hillingdon, Ward, Extra	3.00	to 8.00	3.00	to 8.00
" " Ordinary .....	.75	to 2.00	.75	to 2.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 8.00	4.00	to 8.00
" " Ordinary .....	.75	to 2.00	.75	to 2.00
Ophelia, Mock, Sunburst, Euler, Extra	4.00	to 10.00	4.00	to 10.00
" " Ordinary .....	.75	to 2.00	.75	to 3.00
Carnations	1.00	to 3.00	1.00	to 3.00

WALTER F. SHERIDAN
 Wholesale Commission Dealer in
CHOICE CUT FLOWERS
 133 West 28th Street, New York
 Telephone—3532-3533 Madison Square

WE ARE **WHOLESALE FLORISTS**
 We handle every variety of cut flowers.
 We have 22 years' experience behind us,
 and we do not expect a gold medal for do-
 ing our full duty by our consignors and
 customers. You cannot go very far wrong
 when dealing with us.

GUTTMAN & RAYNOR, Inc.
 101 West 28th Street, NEW YORK
 Phones 2036, 2037, 558 Farragut

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
 Wholesale Florists
 436 6th Avenue, Between 26th and 27th Sts., New York
 Telephones: 797-798-799 Farragut
 Consignments Solicited

WALTER R. SIEBRECHT CO.
 Incorporated
 Wholesale Commission Florists
 Orchids, Gardenias and Many Unusual
 Flowers of Quality.
 114 West 28th Street
 NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS
 55-57 West 26th Street
 Telephones, 13—8510 Madison Square
 MAURICE L. GLASS, Treasurer Consignments Solicited

Flower Market Reports

(Continued from page 517)

The season of 1916-PITTSBURGH 17 has opened most auspiciously. Even promising to surpass its exceptionally successful predecessor. The representative of one large wholesale cut flower company conservatively sizes the situation as possibly quite a little better, while one from a competing house is most positive in his statement of flattering conditions. Flowers of quality are coming in plentifully—cattleyas are superlatively fine and there are plenty of roses. Chrysanthemums and carnations are of good quality, but not yet in sufficient quantities to supply the demand. Lilies are rather scarce and there are still a few nice dahlias. Summing all up, the market is pretty well covered, with the exception of yellow daisies, and blooms and plants of all kinds are bringing remunerative prices.

The extremely hot WASHINGTON weather of last week brought large quantities of stock into the market, and the bulk of it could be had at the buyer's price. Chrysanthemums are the leaders. The frost of the preceding week thinned out the dahlias, and higher prices prevailed on these. There are more orchids offered than the market can consume and the price has dropped to half of what it was. On lily of the valley, also, the price has decreased. There is a shortage of white roses, but there are plenty of all others, with the exception of American Beauties. The supply of violets is increasing and the flowers look good. Cosmos is very plentiful and sells fairly well in the markets.

Visitors' Register

Boston—Fred Howard, of Howard & Smith, Los Angeles, Calif.; F. Gomer Waterer, Bagshot, Eng.; David Smith Stranraer, Scotland.

Washington, D. C.—Benjamin Dorrance, Dorrance, Pa.; W. P. Cotton, Portsmouth, Va.; George F. Struck, New York, N. Y.; Alexander Abramowitz, Carbone's, Boston, Mass.

New York—C. J. Spellman, Jr., and P. Kromwell, Sassenheim, Holland; E. Allan Peirce, Waltham, Mass.; Carl Jurgens, Newport, R. I.; L. J. Reuter, Westerly, R. I.; W. P. Craig, Phila.

Philadelphia—Dr. Louis M. Massey, from Cornell, guest of Pres. S. S. Penock of the American Rose Society; C. A. Baird, Freehold, N. J.; Fred Howard, Howard & Smith, Los Angeles, Cal.

Pittsburgh—Joseph I. Adler, Chicago; Julius Dilloff, New York, N. Y.; Mr. Singer, Botanical Decorating Co., Chicago; Mr. Fletcher, S. A. Weller Pottery Co., Zanesville, O.; William Smith, W. F. Kasting Company, Buffalo, N. Y.; George Hampton, Phila.; Mr. Blackshaw, A. L. Randall Company, Chicago.

Chicago—H. E. Mazey, Minneapolis. Minn.; Geo. W. Kay, Youngstown,

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Oct. 7 1916		First Half of Week beginning Oct. 9 1916	
Cattleyas.....	25.00	to 35.00	25.00	to 35.00
Dendrobium formosum.....	20.00	to 50.00	20.00	to 50.00
Lilies.....	6.00	to 10.00	6.00	to 10.00
Lily of the Valley.....	3.00	to 5.00	3.00	to 5.00
Snagdragon.....	.50	to 1.00	1.00	to 2.00
Gladiali.....	.50	to 4.00	.50	to 4.00
Chrysanthemums.....	12.00	to 35.00	12.00	to 35.00
Dahlias.....	.50	to 4.00	.50	to 4.00
Gardenias.....	10.00	to 25.00	10.00	to 25.00
Adiantum.....	.85	to .50	.25	to .50
Smilax.....	8.00	to 15.00	8.00	to 15.00
Asparagus Plumosus, & Spreng (100 bunches).....	10.00	to 25.00	10.00	to 25.00

VIOLET GROWERS

Before making your shipping arrangements for the coming season please correspond with me.

I HANDLE VIOLETS ONLY

and give my entire time and attention to the interests of my violet growers.

CLARENCE SLINN

Write Now

123 W. 28th Street, NEW YORK

Beechwood Heights Nurseries

THOMAS YOUNG, JR., Proprietor.

Bound Brook, N. J., U. S. A.

Importers and Growers of

ORCHIDS

CUT FLOWERS OF ALL THE LEADING VARIETIES.

ORCHIDS IN THEIR SEASON.

ALSO GARDENIAS

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square

BOSTON, MASS.

Telephone 2618-2617-2616, Main.

William Stuart Allen Co.

Commission Merchants in

CUT FLOWERS

53 West 28th Street, NEW YORK

Telephone—356 Madison Square.

Ohio: Frank Danzer, Detroit, Mich.; E. W. Metz, Toledo, Ohio; M. Ulschmidt, E. St. Louis, Ill.; Julius Dilloff, N. Y.; L. G. Lindsay and bride, Hiawatha Gardens, Minneapolis, Minn.; E. S. Boerner, Urbana, Ill.; Harry A. Barnard, repr. Stuart Low Co., Eng.

NEW CORPORATION.

Brooklyn, N. Y.—Trepel's Flower Store, capital stock \$100,000. Incorporators, J. and R. Trepel and L. Klein.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK

Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of

Good Stock Solicited

PERCY W. RICHTER, Mgr., NEW YORK

111 W. 28th Street

HERMAN WEISS

Wholesale Florist

Experienced, Progressive and can handle shipments of growers' product satisfactorily.

106 West 28th St., NEW YORK

Tel. Farragut 3066.

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street
167 & 3058 Farragut NEW YORK

Established 1888

Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists

110 West 28th St., New York

We Solicit Consignments of New England Grown Novelties.

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ARAUCARIAS

Henry A. Dreer, Philadelphia, Pa.

ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-
LINGDALE GREENHOUSES, Collingdale, Pa.

ASTIBLES

Mt. Desert Nurseries, Bar Harbor, Me.
New Hybrids for Forcing.
For page see List of Advertisers.

AUCTION SALES

The MacNiff Horticultural Co.,
New York City.
For page see List of Advertisers.

Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.

Johnson & Millang, Inc., New York City.
Plants, Bulbs, Etc., at Auction.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price-
list.
JULIUS ROEHRs CO., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

BEGONIAS.

Mrs. J. A. Peterson (New), 2 1/4 in. pots,
\$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRs CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda,
N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Hitchings & Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made.
Write for list. HOLTON & HUNKEL CO.,
Milwaukee, Wis.

BOX TREES

August Rolker & Sons, New York City.
For page see List of Advertisers.

BOX TREES—Standards, Pyramids and
Bush. Price list on demand.
JULIUS ROEHRs CO., Rutherford, N. J.

BULBS AND TUBERS

Hogewoning & Sons, New York City, and
Rynsburg, Holland.
Narcissus Paper White Grandiflora.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Hyacinth, Narcissus and Freesia Refracta
Alba Bulbs.
For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
French and Dutch Bulbs.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
French, Japan, Holland and Cold Storage
Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

The MacNiff Horticultural Co.,
Holland Grown Bulbs.
New York City.
For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.
For page see List of Advertisers.

Fottler, Fliske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

Mr. B. Progressive, Florist,
Everywhere, U. S. A.
Dear Sir: It will be a decided advantage
as regards prices and quality to place your
order with us.

Soliciting your order through this ad
cuts down the overhead selling expenses
and you positively get lower prices and
better quality. Our terms are liberal and
are a guarantee that you get a square
deal, all bulbs guaranteed true to name or
money refunded.

Write us and upon request we will mail
you our booklet giving prices f. o. b. New
York or Chicago, and we also cheerfully
furnish you with any information that
may be desired. Those of our friends who
will mail us a list of their requirements
will find it has paid them to do so.

Awaiting to hear from you at your pleas-
ure, we remain,
Yours very truly,
Westerbeek & Klyn,
Sassenheim, Holland.

Write to WESTERBEEK & KLYNN, 14
STONE ST., NEW YORK, N. Y.

BULBS AND TUBERS—Continued

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

BULBS FOR SALE.

Freesia Purity, \$8.00 thousand. Hy-
acinths, named varieties. Single Early
Tulips. Double Early Tulips. Single
Late Tulips. Darwin Tulips, named va-
rieties. Low Prices. Stock on hand.
Prompt delivery. Single Tulips, mixed,
\$1.50 thousand. Mixed Double Tulips,
Single Late Tulips, Darwins, \$5.00 thousand.
Double Nosed Von Sion; Golden Spur; Bi-
color Empress; Orange Phoenix; Poeticus
Ornatus and Emperor Narcissus. All
above varieties on hand. THOMAS COG-
GER, Melrose, Mass. Phone, Melrose 761-W.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

Cottage Gardens Co., Inc., Queens, N. Y.
New Carnation Cottage Maid.

CARNATION STAPLES

Split carnations quickly, easily and
cheaply mended. Pillsbury's Carnation
Staple, 1000 for 35c.; 3000 for \$1.00 post-
paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
Pompon Chrysanthemums.
For page see List of Advertisers.

Wood Bros., Flushing, N. Y.
For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

CINERARIAS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

2 1/4-inch pots

Half dwarf, selected strains, best colors:
\$3.50 per 100, \$30.00 per 1000; 3-inch, \$5.00
per 100, \$40.00 per 1000.

Write today for our Plant Bulletin and
Bulb List, containing everything you need.
S. S. PENNOCK-MEEHAN CO.,
1608-1620 Ludlow St., Philadelphia, Pa.

DAHLIAS

John P. Rooney, New Bedford, Mass.
Peony Dahlia Mrs. Frederick Grinnell.
For page see List of Advertisers.

ORDERS BOOKED ANYTIME

For Fall or Spring delivery. Wholesale and
Retail. Send for Catalogue. NORTHBORO
DAHLIA & GLADIOLUS GARDENS, J. L.
Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest,
Best. New color, new form and new habit
of growth. Big stock of best cut-flower
varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

For List of Advertisers See Page 499

DECORATIVE PLANTS—Continued
Thomas Roland, Nabant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

DRACAENA CANES

Colin Campbell, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

FERNS

A. M. Davenport, Watertown, Mass.
Small Ferns for Dishes.
For page see List of Advertisers.

B. Vincent, Jr., & Sons Co., White Marsh,
Maryland.
Boston Ferns.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FLORISTS' PLANT STOCK

Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

B. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayeradorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums: S. A. Nutt, 2 1/2 in.; also
rooted cuttings. First class stock. Write
for prices. FRANK LEITH & SON,
Haverhill, Mass.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parselsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

Glass 6x8, 8x10, 10x12, 10x14, \$1.65
per box. Other sizes at factory prices.
C. N. ROBINSON & BRO., Dept. 29,
Baltimore, Md.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, cas-
tles, globes, aquarium, fish goods, nets,
etc., wholesale. FRANKLIN BARRETT,
Breeder, 4815 D St., Olney, Philadelphia,
Pa. Large breeding pairs for sale. Send
for price list.

GREENHOUSE BUILDING MATERIAL
King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parselsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL— Continued

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset,
Boston.
Pecky Cypress.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

John C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Hitchings & Co., New York City.

Metropolitan Material Co., Brooklyn, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS
Michigan Cut Flower Exchange, Detroit,
Mich.

For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

Pallasdes Nurseries, Inc., Sparkill, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

HOT BED SASH.

Parselsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co.,
Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

HOSE

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

H. A. Dreer, Philadelphia, Pa.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

HYDRANGEAS

Anglin & Walsh Co., Williamsbridge, N. Y.
Otakusa and Avalanche.
For page see List of Advertisers.

INSECTICIDES

Hammond's Paint & Slug Shot Works,
Beacon, N. Y.
Hammond's Thrip Juice No. 2.
For page see List of Advertisers.

INSECTICIDES—Continued

Aphine Manufacturing Co., Madison, N. J.
Aphine.

For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.

For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.

For page see List of Advertisers.

B. G. Pratt Co., New York City.
Whys and Wherefores of Fall Spraying.
For page see List of Advertisers.

IRIS

John Lewis Childs, Flowerfield, N. Y.
Japan Iris.

For page see List of Advertisers.

IVY

A. L. Miller, Jamaica, N. Y.
Field Grown.

For page see List of Advertisers.

LILY BULBS

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

McHutchison & Co., New York.
Lily Bulbs from Japan.

For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Lilium Harriell Bulbs.

For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
Lilium Formosum Bulbs.

For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hohmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.
Hatboro, Pa.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSEY STOCK

R. & J. Farquhar & Co., Boston, Mass.
Trees.

For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.

For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.

For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Cedar Hill Nurseries, Glen Head, L. I., N. Y.
Two Magnificent New Shrubs.

For page see List of Advertisers.

Colin Campbell, New York City.

For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.

PALMS**SINGLE PLANTS**

Belmoreana, 4-inch.....\$40.00 per 100
5-inch.....75c. to \$1.00 each
6-inch.....\$1.25 to \$1.50 each
Forsteriana, 2 1/2-inch.....\$20.00 per 100
4-inch.....\$40.00 to \$45.00 per 100
5-inch.....\$1.00 to \$1.25 each
6-inch.....\$1.25 to \$2.00 each
7-inch.....\$1.50 to \$2.50 each

Made up plants. Prices on application.

PHOENIX ROEBELENI

4-inch.....\$6.00 per 100
5-inch.....\$1.25 to \$1.50 each
6-inch.....\$2.00 to \$2.50 each
7-inch.....\$2.50 to \$3.50 each

Write today for our Plant Bulletin and Bulb List, containing everything you need.

S. S. PENNOCK-MEEHAN CO.,
1608-1620 Ludlow St., Philadelphia, Pa.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHLOX

150,000 field grown Phlox in 12 leading varieties; all colors; true to name. \$3.50 per 100, \$30.00 per 1000. THE NILES NURSERY CO., Niles, Mich.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

POINSETTIAS

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

ROSES—Continued

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Hardy Roses, American Grown.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

ROSE STAKES

The Carnation Support Co.,
Connersville, Ind.
For page see List of Advertisers.

SASH

Standard Hot Bed Sash with cross bar, 80c. each; lots of 25 and over, 75c. each. Satisfaction guaranteed or money refunded. Glass 6 x 8, 8 x 10, 10 x 12 or 10 x 14. \$1.65 per box of 50 sq. ft. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.

Seeds with a Pedigree.

Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Boigiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Gigantic Cyclamen.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
Gold Medal Cyclamen Seed.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Loechnr & Co., New York City.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Seeds, Selected Strains.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
For page see List of Advertisers.

Roman J. Irwin, New York City.
New Crop Florists' Seeds.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Seeds for the Florist.
For page see List of Advertisers.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGOM & HURRELL, Summit, N. J.

SWEET PEA SEED

Arthur T. Boddington Co., New York City.
Winter Flowering Spencer Sweet Peas.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet Peas.
For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphne Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VIOLETS

Clarence Slinn, 123 West 28th St., New York City.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIREWORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 2 Winthrop Sq.
For page see List of Advertisers.

Bound Brook, N. J.

Beechwood Heights Nurseries.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 568-570 Washing-
For page see List of Advertisers.

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.

For List of Advertisers See Page 499

WHOLESALE FLORISTS
Detroit

Michigan Cut Flower Exchange, 264-266 Randolph St.
For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 181 West 28th St.
For page see List of Advertisers.

Hentz & Nash, 55 and 57 W. 28th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Traendly & Schenck, 436 6th Ave., between 26th and 27th Sts.
For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

Woodrow & Marketos, 37 and 39 W. 28th St.
For page see List of Advertisers.

Blodel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 53 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Guttman & Reynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunter Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

George W. Crawbuck Co., 57 West 28th St.
For page see List of Advertisers.

William Stuart Allen Co., 53 West 28th St.
For page see List of Advertisers.

Clarence Slinn, 123 West 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ransdend St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-20 Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 21 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers In This Issue**BOXWOODS, RHODODENDRONS, EVERGREENS, BULBS, ETC., AT AUCTION.**

Johnson & Millang, New York City.
For page see List of Advertisers.

BULBS AND BOXWOODS AT AUCTION.

MacNiff Horticultural Co., New York City.
For page see List of Advertisers.

CEDAR PLANT TUBS.

Richmond Cedar Works, Richmond, Va.
For page see List of Advertisers.

GOLD MEDAL CYCLAMEN.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

HARDY LILIES.

August Rolker & Sons, New York City.
For page see List of Advertisers.

PALMS AND FERNS.

Joseph Hancock Co., Wynnton, Pa.
For page see List of Advertisers.

THE SENSATIONAL PINK SWEET PEA.

Arthur T. Boddington Co., Inc., New York City.
For page see List of Advertisers.

THE NUT-GROWER

The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER
No. 2 Francis St.
WAYCROSS, GA.**STATEMENT OF OWNERSHIP, MANAGEMENT, ETC., OF HORTICULTURE.**

As Required by the Act of Congress, August 24, 1912.

Publisher—Horticulture Publishing Co., Boston, Editor and Business Manager—Wm. J. Stewart. List of stockholders holding one per cent. or more of total amount of stock—W. W. Castle, N. F. Perkins, Wm. J. Stewart, Andrew Stewart, J. K. M. L. Farquhar, P. Welch, David Welch, of Boston, Mass.; Estate of F. R. Mathison, Waltham, Mass.; Thos. Young, Jr., W. F. Sheridan, F. H. Traendly, Chas. Schenck, John I. Raynor, New York City; Estate of W. F. Kasting, Buffalo, N. Y.; A. S. Burns, Elm-hurst, N. Y.; H. H. Battles, S. S. Pennock, Philadelphia, Pa.; John Burron, Chestnut Hill, Philadelphia, Pa.; Estate of Carl Jurgens, Newport, R. I.; Philip Breitmeyer, Detroit, Mich.; Fred Lautenschlager, Chicago, Ill. Bondholders, mortgages and other security holders—none.

Sworn to and subscribed before Notary Public by **WM. J. STEWART,** Business Manager.

Boston, Oct. 2, 1916.

WANTS, FOR SALE, ETC.**HELP WANTED**

WANTED—An all around florist on a commercial place. Sober and reliable. References required. **GEO. E. FELCH,** Aker, Mass.

SITUATIONS WANTED

Gardener with first-class references, 30 years old, married, no children. Experience in and outdoors on well-known private places. Address "R. S.," care **HORTICULTURE**, Boston.

SITUATION WANTED—Gardener aged 30, single, British, experienced in and outdoors, no bad habits, wishes assistant work, private or commercial, to get acquainted with new methods. Can furnish best references. T. H., care of **HORTICULTURE**.

SITUATION WANTED—A chance for advancement by an American Storeman with nearly seven years' experience in designing and decorating with a leading florist in Boston. One year's experience in buying from Boston wholesalers. In or around Boston preferred. Sober and reliable. Best of references. Would like a change made or last of November. T. H., care of **HORTICULTURE**.

FOR SALE**FOR SALE OR RENT AT WESTERLY, R. I.**

The greenhouses formerly operated by L. P. Rankin. In good running order, well stocked with roses. An opportunity for a live, energetic florist. For further particulars and terms, inquire

THE WASHINGTON TRUST COMPANY

Westerly, R. I.

Or **S. S. PENNOCK**

1612 Ludlow St., Philadelphia, Pa.

FOR SALE—Cheap for want of use, one 6 H. P. Gas Engine and Pump. **CHAS. HOFFMEYER,** Carnegie, Pa.

TREES, SHRUBS, VINES and HERBACEOUS PERENNIALS

By **JOHN KIRKEGAARD**

Formerly Assistant to Director of the Royal Botanical Gardens, Copenhagen, Denmark. Latterly Twenty Years in American Forestry and Botanical Work.

Assisted by **DR. H. T. FERNALD,**

Professor of Entomology Massachusetts Agricultural College and Entomologist, Massachusetts Agricultural Experiment Station.

and **PROF. E. A. WHITE,**

Professor of Floriculture, New York State College of Agriculture at Cornell University.

A Great Book A Beautiful Book
A Comprehensive Book
A Practical Book By Practical Men
There Is No Other Book Like It

410 Pages. Planting Plans. Tabular Description and Classification of Species. 59 Full-Page Illustrations in Tone. Authoritative Articles on Many Subjects.

New Edition

BEAUTIFULLY BOUND IN CLOTH
Price only \$2.50 net. Mailing Price, \$2.71. Money-Back Guarantee

Order it from HORTICULTURE
147 Summer St., Boston

In writing to Advertisers kindly mention Horticulture

OCTOBER GLORIES IN THE HARDY GARDEN.

(Continued from page 500)

also hope the ragweed and hay fever have gone. The graceful pretty-flowered *Thalictrums*, with finely-cut foliage, are great favorites, and the new variety *diptercarpum*, growing about four feet high and carrying flowers of lilac-mauve, brightened by the yellow stamens and anthers in September, is a novelty that merits its increasing popularity.

There are few flowers that are more suitable than the *Tritomas* (call them Red Hot Pokers, Flame Flowers, Torch Lilies or what you will). The ever-blooming *Tritoma Pfitzeri*, in bloom from August to October, produces a grand effect in rich orange-scarlet, planted either singly or in masses. Probably most of you will think the best effect is produced in the retailer's store, when My Lady exclaims "What wonderfully gorgeous flame flowers!" and immediately places an order.

Early Flowering Outdoor Chrysanthemums.

If the characteristics of a popular garden plant are hardiness, dwarfness of habit, freedom of flowering, usefulness as a cut flower, and a range of coloring embracing every shade except blue and intense scarlet, then the early flowering chrysanthemum may lay claim to the distinction of being an almost perfect plant, because it possesses these qualities in a remarkable degree.

It is an open question as to when the real Early Flowering chrysanthemum made its appearance, but there is no doubt that it was in the form Pompon section, and that from this class, by judicious hybridising and selection, the present high standard has been obtained. Early flowering in chrysanthemums may be taken to relate to those varieties which come into bloom outdoors in a natural way by the middle of October at the latest.

In 1846 a Pompon variety was introduced from China and this became the basis upon which the French raisers carried on their great work. About 1860 the late Shirley Hibbard mentions some 20 varieties mostly French raised. Afterwards came Little Bob from Cannell of Swanley, Lyon and Mad Jolivat from France, St. Crouts from Guernsey, a white with pink tinge which I remember seeing as a boy in full bloom early in August. The first of the large flowered or Japanese varieties is said to have been raised in Lyons about 1875-6. Mad C. Desgranges was sent to England as a gratis plant by Lemoine in 1876. It was an excellent variety in its way, and large quantities were grown in five-inch pots for Covent Garden Market 15 to 20 years ago. Sports of this variety were Gustave Wermig, Mrs. Burrell and Mrs. Hawkins, varieties also of equal importance.

This marked quite a new era in the cultivation of the early flowering chrysanthemum, and gave a great stimulus to the raising of new varieties, and such enthusiastic cultivators as Nonin, Cannell, Davis, Godfrey, Goacher, Holmes, Wells and Totty will be ever associated with the early flowering

chrysanthemum. While the Pompons held the field for many years, it was certainly the introduction of the large-flowered varieties that popularized the outdoor early flowering chrysanthemum. Mad C. Desgranges and its sports have been referred to but the introduction of Mad Marie Masso about 1891 brought about quite a revolution in the growing of this plant. A new era had dawned upon it, because we had in this an introduction of wonderful constitution, a perfect habit, and most profuse in its blooming qualities, and today it is one of the most popular varieties in general cultivation; and with its sports, Ralph Curtis, Horace Martin, and Crimson Masse covers quite a range of coloring.

The cultivation of the early flowering chrysanthemum is of the simplest kind, and I think that the best results are obtained on moderately rich land. This quality, in addition to the fact that it succeeds in a smoky atmosphere, makes it available alike for the garden of the suburbanite and the millionaire.

A mistaken impression has been given with regard to outdoor chrysanthemums, which is, that all one has to do is to simply plant them in a bed and they will continue to improve from year to year without any further care. That they are entirely hardy and will come up in the spring in most sections is perfectly true, but the best way to produce the greatest quantity of flowers is to take cuttings from the young plants every spring, and as soon as they are rooted plant them out in good soil in rows about two feet apart.

These can be pinched back several times to make them bushy and then in the fall they will produce large quantities of long stemmed beautiful flowers, much superior to old stalks that have been growing for several years, and which are consequently to a greater or less extent exhausted.

CEDAR PLANT TUBS

Our Tubs are made of Everlasting Virginia White Cedar—selected timber, and well manufactured

We use no substitutes.

"ANCHOR" BRAND



These tubs are painted with pure oil paints, a handsome green, and have heavy flat steel hoops.

The larger sizes are trimmed with metal feet and side handles—Large sizes have removable bottoms. Capacity run large enough for a Bay Tree—small enough for a Hyacinth.

Diameter at top from 24 $\frac{3}{4}$ to 6 inches.

Booklet in colors, and prices sent on request.



RICHMOND CEDAR WORKS

Largest Manufacturers of Woolen Ware in the World

RICHMOND, VA.



INDEMNITY FOR DAMAGED PARCEL POST PACKAGES.

It is not necessary to refuse to accept insured or C. O. D. parcel post packages damaged in transit in order to make valid a claim for indemnity, according to a recent statement of Assistant Postmaster General Dockery at Washington, D. C. Many merchants throughout the country, it was said at the Post Office Department, have been laboring under the impression that, in order to make a claim for indemnity, it is necessary to refuse to receive parcels damaged in transit.

Orders have been issued by the Department to its employees, advising them that they must in all cases of damage explain to the addressees that the acceptance of the parcel will in no wise militate against the validity of any claim they may file, but that, instead, their action in refusing the package will subject the sender to additional expense, in that he will be required to pay again the amount of postage required for its transmission, in order that the parcel may be returned to him for examination and determination of the extent to which claim may be filed for damages.

According to a ruling of August 8, 1916, indemnity is payable for partial as well as total damage to packages mailed after that date. The acceptance of damaged parcels by the addressees, it is stated, will enable claim for damage to be filed earlier than would be the case were the goods to be returned to the sender, thus enabling the Department to make quicker adjustment. Recipients of damaged parcels should remember that if they accept them they should at once communicate with the senders and, if a claim is filed, have either themselves or the senders designated as the ones to whom indemnity should be paid.

SOUR SOILS, THEIR CAUSES AND TREATMENT.

This is a subject that applies more to inland courses than those situated by the sea, as the soil is of a heavier nature and consequently apt to get into a sour condition. There are several reasons for soil becoming sour and the following are some of the principal ones:

The first and most important is want of proper drainage. It is absolutely essential, if the soil is to be kept in a sweet condition suitable for the maintenance of a good healthy turf, to have proper drainage. In making a new course this is a very important point that should be carefully gone into and a systematic scheme of drainage carried out.

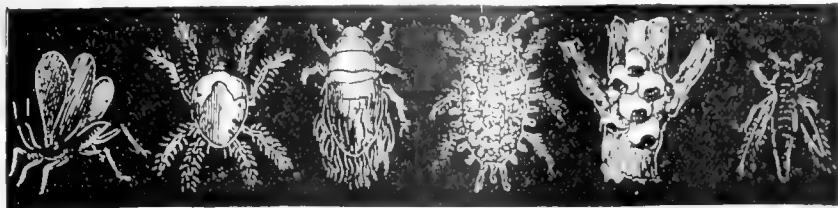
Grass will not thrive on wet sour soil no matter how much money and labor may be expended on fertilizers, etc. It will gradually and surely go back and weeds of all kinds will soon take its place and in a short time the greens will not be fit to play upon. The second cause of sourness in soils is one that is brought about by injudicious watering.

It is most important to have a liberal supply of water at hand, but this does not imply that it should be used indiscriminately even if there should be a good system of drainage, as time and again even on sandy soils where drainage was perfect I have seen the surface turned into a wet, sour condition simply because the watering had been overdone. As it does not rain every day then why should it be necessary to water every day; it is not natural. It is this sprinkling that does the harm and creates a sour surface. Soak the green well, say twice a week if it should require water, as by thoroughly soaking it the water will get down to where it is wanted, at the

Hammond's Thrip Juice No. 2

REGISTERED

A Contact Insecticide, Useful and Reliable, Used for 30 Years in Greenhouses, and on Plants, Grape Vines, Trees and Shrubs



Some common Sucking Insects, magnified.

HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.

roots, and the surface will be kept open.

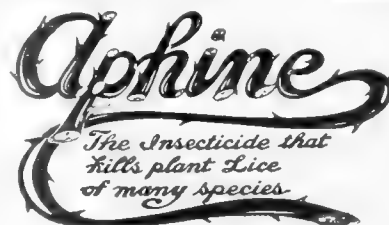
Another reason for soil becoming sour is too much rolling. Especially when the surface is wet a great deal of harm can be done by rolling. Grass, like a human being, must have air, so if the surface is rolled into a condition resembling cement, sourness will soon appear and the grass, especially the finer varieties, will soon die out.

There is another reason for ground becoming sour. It has been said that worms are the natural drainers of the soil and if exterminated the turf will assuredly suffer. I have proved this to be absolutely wrong and have arrived at this bold assertion from years of experience. Take a putting green or fairway that has been used for a few years and observe how the worms have multiplied as compared with the sides that have had no attention bestowed on them. They have thrown up their casts all over and to make play at all possible sweeping and rolling has to be resorted to. This continual sweeping and rolling must undoubtedly change the character of the surface and sourness will set in if continued. My advice in this case is get rid of the worms and kill them entirely if a good healthy grass is desired. This cannot be obtained if they are allowed to burrow and throw up their casts all over the surface.

In conclusion I may say that if grass is to thrive the ground must be kept sweet and yet so that the air can reach the roots; this can only be done by drainage below and proper treatment above. Roll with light wooden roller if rolling is necessary, use plenty of lime, feed the grass well to keep it strong and healthy and water discreetly. If these points are carefully seen to, no trouble need be feared from sourness in the soil and a fine carpet of turf should be maintained at all times.—*The Golf Course.*

BUSINESS TROUBLES.

The disparity between the assets and liabilities of some of the firms figuring in our "business troubles" notes is often a subject of comment. They seem to have some of the same sort across the water for we read in the English journals of a nurseryman whose statement at the meeting of his creditors discloses liabilities of over \$13,000 and assets of "a metal chain valued at one shilling!" Can you beat it?



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporising.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUMIGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



Unequaled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago

Whys and Wherefores of Fall Spraying

is the title of a little booklet, giving seven reasons, official and non-official, why it is the best time to spray. This booklet will be sent out by the B. G. Pratt Co., 50 Church St., New York, manufacturers of the well-known "SCALECIDE" at a very early date. If you are not on their mailing list, send them a postal today giving the number of your trees and your dealer's name and you will receive a copy free. Address Dept. 12



IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON



NIKOTEEN
For Spraying
APHIS PUNK
For Fumigating
Ask Your Dealer For It.
NICOTINE MFG. CO.
ST. LOUIS

Est. 1765

Inc. 1904

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**HOLYOKE AND NORTHAMPTON
FLORISTS' AND GARDENERS'
CLUB.**

The regular meeting was held Oct. 3rd at the greenhouses of Butler & Ullman, Northampton. There was an excellent attendance and the meeting throughout was packed full of interest. Prospects are bright for the fourth annual show, to be held in the Northampton City Hall, Nov. 1st and 2nd.

Instead of the customary paper each member brought a question. These naturally covered a wide field of enquiry, but as a sign of the times it was interesting to note that several had to do with the increasing cost of florists' supplies.

Butler & Ullman exhibited vases of Ophelia and Russell roses of excellent quality and H. E. Downer showed flowering plants of Eichornia crassipes. H. E. D.

CLUB AND SOCIETY NOTES.

At the annual autumn show of the National Rose Society (London, Eng.) a gold medal was awarded to Rose Christine, a most gorgeous, deep yellow H. T. variety, described as a glorified Rayon d'Or, for it is much like a richer bloom of that beautiful variety. It was exhibited by S. McGredy & Son.

The 22d annual meeting of the New Hampshire Horticultural Society will be held in Keene, Oct. 25, 26 and 27. This is an event looked forward to by every progressive fruit grower and farmer of New Hampshire with keen anticipation. Programs may be had by writing to Stanley K. Lovell, Goffstown, N. H.

The Oyster Bay, N. Y., Horticultural Society held its fifteenth annual flower show on October 3. Among the gar-

DREER'S "Riverton Special" Plant Tub

No.	Diam.	Ea.	Doz.	106
10	20 in.	\$1.60	\$17.50	\$145.00
20	18 in.	1.45	15.50	130.00
30	16 in.	1.10	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

deners taking an active part in the show are John T. Ingram, James Duthie, Joseph Robertson, Frank Kyle, Andrew Kennedy, John Sorosick, James Duckham, Arthur Patton, Joseph Marmaron, Alfred Walker, Frank Gale, Duncan Beaton, David Hother-soll, James Bell, Henry Gibson, John De Vine.

DURING RECESS.**Washington Bowlers.**

The first victory of the bowling season was won by the Washington Florists' Club bowling team, when it defeated the Perpetuals, taking two out of three strings. Both teams are entered in the Mount Pleasant Duckpin League.

The results of the games were as follows:

FLORISTS.			
G. Schoeps	82	106	91
Redman	81	91	81
Schaffer	94	100	101
Niedam'ski	87	90	100
Gouldman	106	91	83
Totals	450	481	456
PERPETUALS.			
Baker	80	86	91
Clayton	97	82	84
Benjamin	82	83	90
Mears	79	117	102
Baltz	87	88	87
Totals	425	456	456

**GREENHOUSES BUILDING OR
CONTEMPLATED.**

Auburn, Neb.—C. G. Milan, addition.
Tuxedo, Md.—James Corridon, one house.

Piqua, O.—Wm. Gerlach, Jr., additions.

North Brewer, Me.—Roy Crook, one house.

Mindon Neb.—O. D. Atwater, range of houses.

Galesburg, Ill.—I. L. Pillsbury, one house, completed.

Bethel, Vt.—Geo. B. Chase, River street, house 23 x 33.

Peekskill, N. Y.—Chas. E. Robinson, Main street, two Lord & Burnham houses, each 25 x 150.

Auburn, N. Y.—G. T. Clark, Lord & Burnham house 25 x 75.

Williamsport, Pa.—Eviden Bros., three 250 ft. King houses.

**DREER'S**

Florist Specialties.
New Brand, New Style,
Hose "RIVERTON."
Furnished in lengths up
to 500 ft. without seam or
joint.

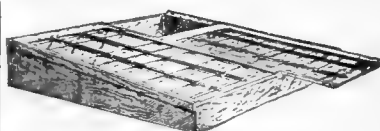
The HOSE for the FLORIST
1/2 in. per ft., 15 c.
1 in. " " " 14 c.
1 1/2 in. " " " 14 c.
2 in. " " " 14 c.
2 1/2 in. " " " 12 c.
3 in. " " " 12 c.
Cushings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

**STANDARD FLOWER
POTS**

If your greenhouses are within 500
miles of the Capitol, write us, we can
save you money.

W. H. ERNEST

22th & M Sts., Washington, D. C.



HOTBED SASH at 75c. each
Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.
Double Light Sash up to \$4.00.

We carry a large stock of all sizes.
Write us for estimate.

S. JACOBS & SONS
1359-1365 Flushing Avenue BROOKLYN, N. Y.

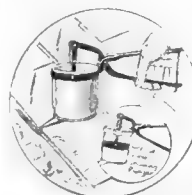
PATENTSTrademarks
and Copyrights

Difficult and rejected cases specially
solicited. No misleading in-
ducements made to secure business.
Over 30 years' active practice. Ex-
perienced, personal, conscientious
service. Write for terms.
Address,

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

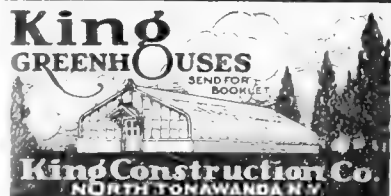


Will last a life-time.

\$1.25 EACH

Adjustable—can and
frame separate—
easily cleaned.
Frame all one piece,
of malleable iron.
More practical and
more easily operated
than any other.

Seal-tight liquid putty at \$1.25 per gallon.
METROPOLITAN MATERIAL CO.
1592-1614 Metropolitan Ave., Brooklyn, N. Y.



FOLEY MATERIALS

ARE THE BEST FOR
Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, - - - - - CHICAGO, ILL.

CYPRESS GREENHOUSE STOCK

PECKY CYPRESS BENCH STOCK

HOT BED SASH

Ask for Circular D and Prices

THE A. T. STEARNS LUMBER COMPANY

NEPONSET, BOSTON

SHARP, PARTRIDGE & CO.

Are Leaders in

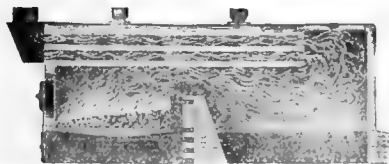
GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

KROESCHELL BOILER

SEND FOR CATALOGUE



KROESCHELL BROS. CO.
486 W. Erie St. Chicago, Ill.



EVERYTHING FOR THE GREENHOUSE
John C. Moninger Company

CHICAGO NEW YORK
922 Blackhawk St. 812 Marbridge Bldg.
CINCINNATI, 2314 Union Central Bldg.

MASTICA



For Greenhouse
Glazing
USE IT NOW

F. O. PIERCE CO.
12W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

THE FLORISTS' HAIL ASSOCIATION

Is a mutual organization, insuring greenhouse glass against hail. Both commercial and private establishments are accepted. For particulars, address

John G. Esler, Sec., Saddle River, N. J.
Insure Now.

Quality Greenhouses

At Minimum Cost

For Greenhouses of recognized merit,

For Greenhouses of proven dependability,

For Greenhouses of the very finest material and construction.

For Greenhouses which have demonstrated for over 45 years, that

**WE KNOW WHAT TO DO
AND WHAT NOT TO DO**

See Us!

S. Jacobs & Sons

Greenhouse Builders

1359-1385 Flushing Avenue
BROOKLYN, N. Y.

GLASS

GREENHOUSE MATERIAL
HOT-BED SASHES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

Dreer's Peerless Glazing Points For Greenhouses

It fits easy and true. Because both bevels are on the same side. Can't twist and break too glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us. Price, 10c postpaid. Name on box.
HENRY & DREER,
114 Johnson Street,
Chicago, Ill.

FULL
SIZE
No. 2

Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

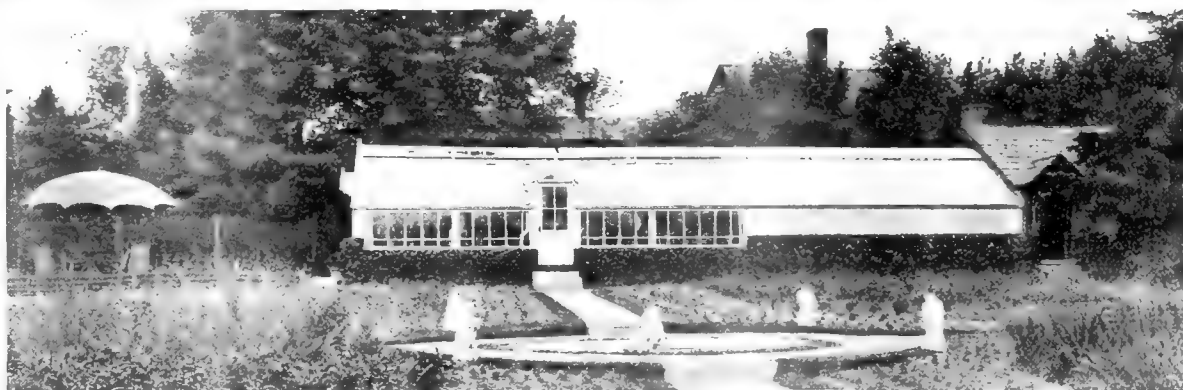
JOHN A. EVANS CO.
Richmond, Ind.



The first cost is the only cost when buying Advance Ventilating Apparatus and Greenhouse Fittings.

Let us send you our catalogue.

ADVANCE CO.,
Richmond, Ind.



It was a good bit before breakfast when I took this one of Mrs. J. J. Kane's at Bar Harbor. A wee bit early for the gardener, so the pleasure of meeting him was missed.

Just a Passing Glimpse At a Few of Our Houses "Up Maine Way"

WHEN the Sweet Pea Society met at Bar Harbor, I took our "picture box" along and snapped a few of the greenhouses we have erected there and thereabouts. Some of the houses have been up for years; others of recent construction.

All are in splendid condition. Here are four.

Later on we will publish
some more.



Some twelve years ago, we erected this one for D. C. Blair, at Bar Harbor. It is but one of the incidents of interest in that estate of exceptional beauty. Mr. J. Mitchell, the gardener, is one of those worth while men with a seemingly endless amount of interesting information about plants, flowers and shrubs. Would have liked to spend the day with him.



The Mrs. J. H. Kennedy range is perhaps the largest in the Bar Harbor colony. It consists of various constructions of various concerns; arriving at the climax with one of our houses. Which fact reminds one of the Gold Medal Flour Ads. which everywhere say: "Eventually — why not now?"

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

SALES OFFICES:

NEW YORK
42nd Street Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Widener Bldg.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

CLEVELAND
Sweetland Bldg.

TORONTO, Royal Bank Bldg.

MONTREAL, Transportation Bldg.

FACTORIES: Irvington, N. Y.

Des Plaines, Ill.

St. Catharines, Canada.



On the way to Portland stopped off at Bath to see this garden greenhouse on the extensive estate of J. S. Hyde. It forms one side of a charming brick wall enclosed, formal garden. The greenhouse fits into the scheme with little loss.

Vol. XXIV
No. 17
OCT. 21
1916

HORTICULTURE



An Object Lesson in Landscape Art

View from Pergola on Bayard Thayer Estate, Lancaster, Mass.

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription, \$1.00

JAPAN BULBS

The finest lily bulbs produced are offered below at most reasonable prices, considering the quality. Size 7x9 and 9x10 can still be delivered from various cities as advertised. Deliveries of Giganteum have already been made from New York, Chicago, Memphis, Vancouver, San Francisco and Seattle, and cars for other cities are due now any day. Buy now—get a delivery near home and on time. It is important to you.

GIGANTEUM

Best white Lily for Easter. Get them planted in time—not too late.

6 x 8 in.....	\$5.00 per 100;	\$18.00 per case of 400
7 x 9 in.....	6.00 per 100;	15.00 per case of 300
8 x 9 in.....	7.00 per 100;	18.00 per case of 350
8 x 10 in.....	8.00 per 100;	18.00 per case of 250
9 x 10 in.....	10.00 per 100;	19.00 per case of 200
10 x 11 in.....	13.00 per 100;	18.00 per case of 150

Order now all you want for delivery from Cold Storage from the various cities we deliver from, during 1917. Prices including all expense for storage and shipping during 1917 are \$1.00 more per case for the cases of 100 each and \$2.00 more per case for full boxes. You will pay more if you wait too long. Now is the time to order. They are packed especially for Cold Storage purposes.

FORMOSUM

Fine Large Bulbs for Early Flowering

9 x 10 in....\$17.00 per case of 160 bulbs | 10 x 11 in....\$17.00 per case of 140 bulbs | 10 x 12 in....\$17.00 per case of 120 bulbs

FRENCH BULBS

PAPER WHITE GRANDIFLORA

First Size.... \$7.00 per 500; \$15.00 per case of 1,250 bulbs
Extra Size.... 10.00 per 500; 18.00 per case of 1,000 bulbs

GRAND SOLEIL D'OR (Yellow Paper Whites)

First Size....\$13.00 per 500; \$25.00 per case of 1,100 bulbs

All the above are absolutely first class in every respect. Prices are f. o. b. Bound Brook, N. J. After November 1st, shipments should be made by express. Cases will be paper lined by request.

HOLLAND BULBS

Direct importations from our Rotterdam office of good quality Dutch bulbs at prices consistent with costs at the time of exportation. Good Holland bulbs are scarce this year, reports to the contrary notwithstanding.

HYACINTHS

FIRST SIZE NAMED. Good	100	1000
varieties.....	\$4.00	\$38.00
SECOND SIZE NAMED. Good		
varieties.....	3.50	30.00
MINIATURE NAMED. Good		
varieties.....	2.00	15.00

NARCISSI

VON SIONS (Daffodils).		
Double Nosed Bulbs.....	2.50	20.00
PRINCEPS. Primrose with		
yellow trumpet.....		
Double Nosed Bulbs.....	1.25	10.00
Single Nosed Bulbs.....	1.00	8.00
GOLDEN SPUR. Yellow.		
Double Nosed Bulbs.....	2.50	22.50
Single Nosed Bulbs.....	1.50	13.00
EMPEROR. Yellow trumpet,		
primrose perianth.....		
Double Nosed Bulbs.....	2.00	17.00
Single Nosed Bulbs.....	1.50	13.00
VICTORIA. White perianth,		
yellow trumpet.....		
Double Nosed Bulbs.....	2.50	20.00

SINGLE TULIPS

Artus. Scarlet.....	\$1.00	\$8.00
La Reine. White.....	1.00	8.00
Keizerskroon. Red and yellow	1.50	12.00
Cottage Maid. Pink.....	1.00	8.00
Rose Gris de Lin. White,		
pink shade.....	1.00	7.00
Yellow Prince. Yellow.....	1.00	9.00
Belle Alliance. Scarlet.....	1.50	10.00

DOUBLE TULIPS

Murillo. White, rose tinge....	1.25	10.00
Couronne d'Or. Fine yellow..	2.00	18.00
Imperator rubrorum. Scarlet.	2.00	15.00
Tournesol. Red and yellow..	2.00	18.00

MIXED TULIPS

Single Superfine Mixture.....	100	1000
	\$0.75	\$6.50
Double Superfine Mixture.....	85	7.50

DARWIN and COTTAGE TULIPS

Clara Butt. Delicate salmon		
pink.....	\$1.00	\$9.00
Pride of Haarlem. Brilliant		
rose, blue base.....	2.00	15.00
Gretchen (Margaret). Flesh		
color.....	1.00	9.00
Inglescombe. Large, yellow.	2.50	20.00
Baron de la Tonnaye. Pink		
and blush.....	1.25	10.00
Madame Krelage. Lilac rose.	1.50	12.00
Gesneriana spathulata. Fine		
scarlet, blue base.....	1.25	10.00

MISCELLANEOUS

GRAPE HYACINTHS (Muscari).		
Heavenly blue. Very fine for early		
Spring pot stuff. \$4.50 per 1000.		
SPIRÆA Gladstone. \$6.00 per 50, \$10.00		
per 100.		
Improved Queen Alexandra. Pink.		
\$8.00 per 50, \$15.00 per 100.		
NEW PINK PRINCESS MARY. \$13.00		
per 50, \$25.00 per 100.		
CHINESE SACRED LILY BULBS. \$7.20		
per bale of 120 bulbs.		
FREESIAS, Refracta Alba. \$12.00 per		
1000. Purity. \$12.00 per 1000.		

Inquire for prices on other bulbs such as GLADIOLUS, TUBEROSES, CALADIUMS, etc., quoted upon application.

RALPH M. WARD & CO.

THE LILY HOUSE

71-73 Murray Street, NEW YORK CITY

BRANCH AT ROTTERDAM



Our Rotterdam office will be pleased to receive inquiries from American buyers interested in anything imported from Europe. Prices will be promptly submitted for Hardy Azaleas, Rhododendrons, Decorative Plants, Herbaceous Plants, Flower-beds, Climbing Plants, Clematis, Pot-grown Shrubs, Roses, Evergreens, Boxwood, and any Belgian stock permitted. We will be glad to write them direct and will receive the same attention as though we handled it. The office has been established for the convenience of American buyers who would like to buy through Americans abroad who will superintend the shipments before they leave Europe. Address: Ralph M. Ward & Co., Boompjes 82, Rotterdam, Holland. Write for letters, etc., for first ounce and 3c. each additional.

GERANIUMS

We have the largest stock in better condition than we have ever had, and are prepared to take care of your orders in the shape of: Alph. Ricard, Beauté, Jean Viand, Edmond Blanc and Scarlet Rock, etc., at \$2.00 per 100, \$20.00 per 1000; 3-in. at \$3.00 per 100, \$30.00 per 1000; S. A. Nutt, Gen. Grant, Mad. Buchner, Mar. Rose and Jean Oberlies, Abbie Schaffer and E. G. Trego, etc., 2-in. at \$2.00 per 100, \$18.50 per 1000; 3-in. at \$3.00 per 100, \$25.00 per 1000.
CROTONS. Good 4-in. stock, \$3.50 per doz., \$25.00 per 100.
BOSTON FERNS. 4-in., \$15.00 per 100; 7-in., \$6.00 per doz.; 8 in., \$1.00 each, \$9.00 per doz. Large plants in 11 and 12 in. pots, from \$2.00 to \$5.00 each.

	2-in.	2-in.	3-in.	3-in.		2-in.	2-in.	3-in.	3-in.
	100	1000	100	1000		100	1000	100	1000
ACALYPHA	\$2.50	\$20.00	\$3.50	\$30.00	LEMON VERBENAS	\$2.00	\$18.50	\$3.00	\$25.00
ALTERNANTHERAS	2.00	18.50	3.00	25.00	LANTANAS, 10 varieties.	2.00	18.50	3.00	25.00
AGERATUM	2.00	18.50	3.00	25.00	MOONVINES, White and Blue.	2.00	18.50	3.00	25.00
ASPARAGUS SPRENGERI			5.00		PARLOR IVY, S. Scandens	2.00	18.50	3.00	25.00
BEGONIAS, Vernon	2.00	18.50	3.00	25.00	PETUNIAS, Double and Single	2.00	18.50	3.00	25.00
COLEUS	2.00	18.50	3.00	25.00	Mixed	2.00	18.50	3.00	25.00
CUPHEA	2.00	18.50	3.00	25.00	POMPOON CHRYSANTHEMUMS			3.00	25.00
HARDY ENGLISH IVY	2.00	18.50	3.00	25.00	SALVIA, Bontire and Zurich.	2.00	18.50		
HELIOTROPE	2.00	18.50	3.00	25.00	SWAINSONA, White.	2.00	18.50	3.00	25.00

CASH WITH ORDERS.

R. VINCENT, Jr., & SONS CO., WHITE MARSH, MD.

LILY OF THE VALLEY PIPS

Danish and German Stock
Booking Orders now for
1916 Crop

LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

CHAS. SCHWAKE & CO., Inc.

Valley

GERMAN, SWEDISH
AND DUTCH PIPS

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co., 559	Clarke's D. Sons, 546	Grey, Thos. J., 545	Knoble Bros., 547	Palmer, W. J. & Son, 547	Skidelsky, S. S. & Co., 545
Albany Cut Flower Ex., 552	Clucas, R. W., 541	Co., 545	Kramer, F. H., 547	Park Floral Co., 546	Slinn, Clarence, 553
Allen, J. K., 553	Coan, J. J., 553	Gasser Co., J. M., 547	Kroeschell Bros., 559	Parshelsky Bros., 559	Smith, Elmer D. & Co., 540
Allen, Wm. Stuart, 553	Cooke, Geo. H., 546	Gude Bros., Co., 546	Kuebler, W. H., 552	Penn the Florist, 546	Smith, P. J., 552
American Bulb Co., 545	Cowee, W. J., 550	Gunther Bros., 553	Lager & Hurrell, 532	Pennock Meehan Co., 551	Smith & Fetters, 547
Anderson, S. A., 547	Craig, Robt. Co., 541	Guttman & Raynor, 540 552	Lange, H. F. A., 547	Pierce Co., F. O., 559	Smith, W. & T. Nursery Co., 541
Anglin & Walsh, 541	Crawback, Geo. W. Co., 553	Hall Association, 559	Leonard Seed Co., 545	Pierston, A. N., 540	Smyth, Wm. J., 547
Aphine Mfg. Co., 542	Dards, 546	Hammond Paint & Slug Shot Works, 542	Lochner & Co., 531	Pierston, F. R., 532	Stumpp, G. E. M., 546
Badgley & Bishop, Inc., 552	Davenport, A. M., 552	Hart, Geo. B., 552	McHutchison & Co., 532	Poehlmann Bros. Co., 550	Thorburn, J. M. & Co., 545
Barrows & Son, 532	Delgado Q. Francisco, 552	Henderson, A. & Co., 545	McManus, Jas., 552	Randall's Flower Shop, 547	Totty, Chas. H., 540
Bayersdorfer, H. & Co., 549	Dinda, Frank., 540	Hentz & Nash., 552	McConnell, Alex., 546	Reed & Keller, 550	Traendly & Schenck, 552
Bay State Nursery series, 541	Dorner, F. & Sons Co., 540	Hess & Svoboda, 547	MacNiff Horticultural Co., 541	Riedel & Meyer, 552	United Cut Flower Co., 553
Bobbink & Atkins, 541	Dreer, H. A., 558-559	Hews, A. H. & Co., 558	Marshall, W. E. Co., 545	Reid, Edw., 550	Valentine, J. A., 546
Boddington, A. T., 543	Dunlop, John H., 547	Hill, E. G. Co., 550	Meconi, Paul., 553	Reuters, 547	Vincent, R. Jr., & Sons Co., 531
Bolgiano & Son, 545	Dysart, R., 546	Hill, D. Nursery Co., 541	Metropolitan Material Co., 558 559	Richmond Cedar Works, 540	Wants, For Sale, 557
Breck, J. & Sons, 545	Eastern Chemical Co., 542	Hitchings & Co., 560	Michell, H. F. Co., 544	Robinson, H. M. & Co., 553	Ward, R. M. & Co., 530
Breitmeyer's, J. Sons, 546	Edwards Folding Box Co., 550	Holland Nurseries, 541	Michigan Cut Flower Ex., 550	Robinson, H. M. Co., 552	Weber, F. C., 547
Budlong, J. A., 550	Elliott Auction Co., 532	Holm & Olson., 547	Millang, Chas., 552	Rochrs, J. Co., 532	Weiss, Herman, 553
Bunyard, A. T., 546	Ernest, W. H., 558	Irwin, R. J., 545	Miller, A. L., 532	Roland, Thomas, 547	Welch's, 550
Burnett Bros., 545	Esler, J. G., 559	Johnson & Millling, 540	Moninger, J. C. Co., 559	Roller, A. & Sons, 552	Welch Bros. Co., 550
Burpee, W. A. & Co., 545	Evans, J. A. Co., 559	Jacobs, S. & Sons, 559	Mt. Desert Nursery series, 552	Rosery, The., 546	Welch, Pat'k., 553
Carnation Support Co., 541	Eyres, 547	Kasting, W. F. Co., 550	Murray, Samuel, 546	Schling, Max., 546	Wood Bros., 540
Carte's Tested Seeds, Inc., 541	Farquhar, R. & J. Co., 545	Keller, J. B. Sons, 546	National Nurseryman, 541	Schwake, Chas. Co., 531	Woodrow & Markos, 550
Cedar Hill Nursery series, 532	Foley Mfg. Co., 559	Kelway & Son, 545	Nicotine Mfg. Co., 542	Sharp, Partridge & Co., 559	Yokohama Nursery series, 545
Childs, John Lewis, 540	Ford, W. P., 552	Kerr, the Florist, 547	Niessen, Leo Co., 550	Sheridan, W. F., 552	Young, John & Co., 552
	Ford, M. C., 552	Kervan Co., 552	Nut Grower, 557	Siebrecht, Geo. C., 552	Young & Nugent, 546
	Froment, H. E., 542	King Construction Co., 558	Onwerkerk, P., 541	Siebrecht, W. R., 552	Zvolanek, Ant. C., 545
	Galvin, Thos. F., 547		Palisades Nursery series, 511	Siggers & Sigers, 559	
	Graham, Adam & Son, 547				

FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 554, 555, 556, 557

IN THE LINE OF PROGRESS

We Are Headquarters for All the

New Hybrid Astilbes for Forcing

Very large spikes, magnificent foliage, named varieties in all shades from pure white to pink and rosy violet. Strong clumps for immediate shipment

Don't waste your valuable space on the old superseded sorts.

These new ones are indispensable

MOUNT DESERT NURSERIES, BAR HARBOR, MAINE.

DRACAENA CANES

All the best commercial varieties, including

LINDENI	MASSANGEANA	TERMINALIS
FRAGRANS	IMPERIALIS	SANDERIANA
AMABILIS	LORD WOLSELEY	Etc., Etc.

Write for Import Prices. Fall Shipment

McHUTCHISON & CO., THE IMPORT HOUSE 95 Chambers St., New York

OLDEST AUCTION HOUSE

IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co.
42 Vesey St., New York

Hardy Lilies

due to arrive from Japan by end of October; send for our SPECIAL OFFER of Auratum, Speciosum Album, Rubrum, Magnificum, etc., Lilies; also of GLADIOLUS and CACTUS DAHLIAS in best Florist's sorts; all either this Fall or next Spring delivery. Japan BAMBOO CANES in bale lots now ready. Our FIRST AZALEA SHIPMENTS from Belgium now on the way.

AUGUST RÖLKER & SONS, 51 BARCLAY STREET, New York
or P. O. BOX 752

FIELD GROWN IVY

\$7 per 100, \$65 per 1000

Large Flowering Paris Daisies

4 in. ready for 6-6 1-2 in. \$10 per 100

GENISTAS

4 1-2 in. pots, very bushy, \$20 per 100

All the above is first class stock and grown especially for the critical trade.

A. L. MILLER

JAMAICA, N. Y.

TWO MAGNIFICENT NEW SHRUBS

PHILADELPHUS VIRGINAL—The finest shrub in existence, large double flowers two inches in diameter, pure white, deliciously scented. Strong Plants \$2.00.

DEUTZIA CRENATA MAGNIFICA—A beautiful plant, pure white double flowers. A great improvement on the type. Strong Plants \$2.00.

A Fine New Clematis from Western China

CLEMATIS "FARGESII"—White flowers two inches in diameter. A strong growing vine that flowers at the end of June. Plants \$1.00.

CEDAR HILL NURSERY,

GLEN HEAD
L. I., NEW YORK

CINERARIA HYBRIDA GRANDIFLORA, 3 in. ready for 4½ in. \$5.00 per 100

CINERARIA STELLATA, Strong 3 in. ready for 4½ in. Mixed Colors, \$5.00 per 100

SMALL FERNS FOR DISHES

Plenty of Holly and Aspidium 2¼ in., \$4.00 per 100; \$35.00 per 1000. Adiantum rhodophyllum and cuneatum, 3½ in., very strong plants, \$8.00 per 100.

A. M. DAVENPORT, Watertown, Mass.

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.

WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.

ROOSEVELTS—\$5 per 100, \$40 per 1000.

BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

ORCHIDS

Francisco Delgado Q.

Orchid Collector

Solicits orders for shipments of Orchids. Prices quoted upon application.

BOGOTA (Chapinero) **COLUMBIA**

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, N. Y.

When writing to advertisers kindly mention HORTICULTURE.

ORCHIDS

CONSERVATORY PLANTS

BEGONIAS

Lorraine, Cincinnati and Mrs. Peterson

JULIUS ROEHRS CO.
Rutherford, N. J.

ORCHIDS

We grow and sell nothing but ORCHIDS. If you are in the market for this class of plants we respectfully solicit your inquiries and orders. Special lists on application.

LAGER & HURRELL, Summit, N. J.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.
 "If vain our toll, we ought to blame the culture, not the soil."—*Pope*.

Allamandas

If these plants are required for early flowering they should now be kept drier at the roots so as to harden and ripen up their wood. They will rest well in a temperature of 50 to 55 degrees, but when starting them into bloom keep them at 65 and give an abundance of water as soon as they get into active growth. Water may be withheld till they flag but do not allow the wood to shrivel. In fact allamandas can be so managed as to have them bloom at any time of the year by first resting the plants, then pruning them back and encouraging root action. These plants are well worth growing where yellow flowers are wanted; they adapt themselves beautifully to various forms of decorations. Plants that were pruned last spring to within a joint or two and these when they had made two or three whorls of leaves pinched again, and so on during the summer, will have made fine stock by this time.

Carnations

A plant with eight or ten stocky shoots about 6 inches long, is far better than one with five shoots of which three are in flower now. Short shoots with buds on the end of them remove at once and give the other shoots at the base a chance to send up long, flowering stems. A carnation can stand more cold than heat, especially when planted in a few inches of soil indoors, and while getting established 48 to 50 degrees at night is better than 55. Don't worry because the plants are as yet slow to send up flowering shoots, as long as they are full of good foliage and plenty of strong shoots coming from the bottom. Give light fumigations once every ten days.

Young Cinerarias

Cinerarias sown in July should now be nice strong plants in flats. Just as soon as they have made enough growth for a three-inch pot they can be potted off. They like a light and sandy mixture, say three parts fibrous loam, two of not too old leaf mold, and a little sand. They can be kept rather close and shaded for a few days, after which they can be placed well up to the glass in a cool house. Be careful in watering that they do not become dry, and on the other hand that they are not kept soaked all the time. Never let them approach a pot-bound condition until they are in their flowering size. When they have filled their pots with roots, shift them along. They gain vigor and tone in a temperature of about 45 degrees at night.

Planting Shrubs

Every florist who has the ground to spare should make a planting of shrubs and by a plan of careful selection he can have flowers from April until September. The choice of varieties is perplexing because there are hundreds of lovely shrubs, but these embrace some of the best for April and May flowering: Forsythia, Cornus florida, spireas, deutzias, almonds, Calycanthus floridus. For June and July, halesia, lilacs, lonicera, Azalea nudiflora, weigelas, hawthorns, syringas, laburnum, viburnums. For August and September althaea, hydrangea, Desmodium pendulifolium and clethra. All that is necessary is to plow or dig the soil to a depth of 12 or 14 inches and give them a square deal in the way of plenty of manure mixed through it. Give each shrub plenty of room to grow and set them just as deep as they were before. Put high shrubs at the back and the low ones to the front.

Primulas for Christmas

They will stand some feeding now in weak doses once a week. There is nothing better than cow manure and a little soot; this will give them that dark green foliage one loves to see. They should be placed on a light, airy bench well up to the glass. Go over them often and give a little room where required. They should be given a nice equalized temperature of from 48 to 50 degrees at night. The frequency that they will require water can only be determined by going over them three or four times a day. Every florist will have his hands full trying to get his different crops in right shape for the holidays and one of these is primulas. The small stock can be potted up now and grown on. These will make fine stock for mid-winter and spring sales. Give them a rich compost of cow manure, leaf mold and fibrous loam.

Reminders

The more slowly bulbs are forced, the better substance the flowers will have.

Where possible sterilize all soil for seed sowing, to kill weeds and fungus spores.

Keep all young stock of crotons and similar plants well up to the light to ensure good color in the foliage.

Be careful and do not allow green flies to get a foothold on cinerarias, calceolarias or primulas. Give light fumigations every ten days.

Next Week: Begonia Gloire de Hollande; Callas; Lily of the Valley; Paper Whites and Roman Hyacinths; Sweet Peas; Reminders.

BOOM YOUR BUSINESS
 by advertising your goods in the
Horticulture

Publicity among the kind of readers reached
 by this paper is THE SORT OF PUBLI-
 CITY THAT PAYS.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Proper Cutting

At this time of year it will be necessary to be very careful while cutting roses to see that the eyes are left on the plant as they should be every time a rose is cut. The winter's cutting will largely depend on the proper cutting now, so it will pay to look the plants over every now and then and make sure no flowers are being cut carelessly. Two good eyes should always be left on all tea roses, and the Beauties the same way, cutting all new shoots two eyes above the first or bottom wire. All special long stems that have been bent down on the Beauties can be cut at the first wire and the remaining piece of wood can be removed while tying. It is also well to instruct the men to take all poor buds with one good leaf only, leaving the rest of the stem on the plant, as it will quickly shoot out and bear a bud and this can then be cut down to the proper place, thus giving a good long stem and making up for the loss of the one poor bud. There should not be many of these but they will be found here and there.

Watering After a Crop

Care should be taken in applying water to the benches after a heavy crop has been cut off. While the plants are still cutting it will be necessary to give them plenty of water so that the buds will not suffer but as soon as the largest part of the crop is cut off, the water should be applied only when the plants are dry. A light dose of lime will also help put the soil into condition, and as soon as the plants start anew water will be used more freely until they are in crop again. As soon as the plants are well started a little feed applied just before watering, or liquid manure used directly after watering will help wonderfully bringing them into crop again. The main thing to guard against after a crop is overwatering. If the plants are watered too heavy, spot will almost surely set in and this will keep the growers hustling for weeks to come.

Leaky Faucets

See that all leaky faucets are repaired as soon as they begin to leak, as there cannot be a greater nuisance in the greenhouse. It will waste a lot of water, thus running up the water bill, and at the same time it will make mud holes in the walks and also make the house damp and unhealthy for both men and roses. It takes only a little time to put in a new washer, and the little time thus taken is well spent. Old worn-out faucets that cannot be fixed should be replaced by new ones, even though brass is very high just now.

The Heating Pipes

It will be well to go over the heating pipes now and test them all to make sure that they will stand the coming winter, and also to note if there are any pipes that are slow circulating or if there are any that will not work. No time like the present for straightening them all out so that good circulation will be insured. Make sure that the pipes are high and see that the covering on the mains is all it should be. There is a great deal of coal wasted every year just by leaving the pipes uncovered, or else lying on the ground where the heat is absorbed much the same as electricity would be. It will not take long to put things into shape once the work is started and the work will be well paid for. To keep the pipes from rusting, a coat of prepared pipe paint or of lampblack mixed with pure linseed oil can be applied to one pipe at a time so that there will be no danger from fumes. After the one pipe is burned out well another one can be painted and so on. In wide houses of course more than one pipe can be painted at a time but even then it should be done in the morning on a clear day so that the fumes resulting will have plenty of chance to escape when the vents are opened. Overhead pipes should be given a coat of aluminum. This will kill radiation a bit but it will brighten up the house so much that it will well pay to do the work. Use bronze powder and bronzing fluid for this work.

Grading

After being very careful as to the growing, growers should pay all attention possible to the proper grading of the roses. Certain rules should be laid to meet the requirements of the place, stock and market, and these rules should be adhered to year in and year out. This will establish a grade of stock for which the place will become noted and buyers will know just what they are getting when they buy from the place in question. Although it is best to be careful to get as many long grades as possible it will not pay to put roses into a certain grade which really belong to a grade lower. Buyers will soon get next to this, and when stock is plentiful the grower with poor stock and short grades will be the one who will get left. While grading it is well to see that the roses are handled as they should be and not banged around any old way. Every bruise will show on the rose bud and may mean several cents less on a whole lot of roses, which is not much, but it may represent the profit and where several thousand roses are shipped out, could run into quite some money.

Tunica Saxifraga

Any seed house carrying hardy perennial flower seeds knows by experience that one of the first questions asked by the amateur buyer is: "Does it flower the first year?" As salesman, I always felt that when now and then I could answer in the affirmative. The number of species, of course, is limited but perhaps not so much so as we usually may think. By early sowing under glass, hardy fall asters, anthemids, boltonias, Chrysanthemum maximum, coreopsis, delphiniums, gaillardias, lychnis, Phlox paniculata, platycodon, Sedum spectabile, Scabiosa caucasica, Stokesia cyanea tritomas and even sometimes astilbes may be brought to bloom the first year. One of the easiest to handle and absolutely sure to produce its full crop of blossoms during the first season is the subject of this note, Tunica Saxifraga. A low creeping genus of the order Caryophyllaceae, hailing from Central Europe, it prefers an open sunny exposure and according to my observation does not suffer by occasional drought. Well adapted for small border, it is even more valuable for the rockery. The plantation depicted by our cut shows the August effect of early March seedlings in a rock garden which the writer built in Maine. The small narrow linear foliage and the great abundance of little pink blossoms gives the whole an admirably graceful appearance. Tunica Saxifraga in a cut state may be used for floral work in a similar way as we use the panicles of the gypsophilas. For this purpose the



TUNICA SAXIFRAGA.

new double flowering form is the most valuable one. The latter is a shy seeder and plants must be propagated by divisions or summer cuttings.

Glenside, Pa.

Richard Rothe

A GLANCE AT ROWAYTON.

The Rowayton Greenhouses of Traendly & Schenck at Rowayton, Conn., are well known to most of our readers. We know of no place where rose growing under glass is carried on with more watchful exactness than at this establishment and the product as in evidence from day to day at their New York salesroom finds favor accordingly among the buyers. Ophelia, Stanley, Mock, Beauty, White Killarney and Ward are the varieties grown most heavily and among those in the experimental class is a seedling which goes under the name of "Red Ward" for the present.

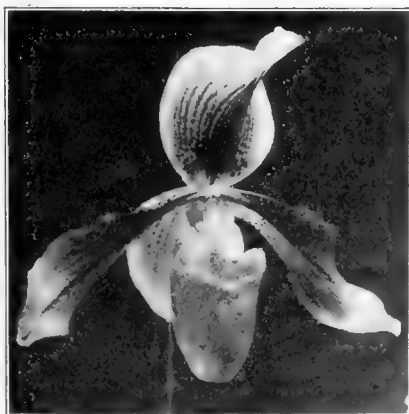
As previously mentioned in HORTICULTURE two mammoth Lord & Burnham houses have been added to this already large range this season and the graceful 125-foot stack of yellow brick recently completed is a landmark seen from afar. Labor troubles all through the summer have seriously hampered all work on this place and the heating system for the new houses has only recently been completed. It is what is known as the "vacuum system" and every modern device for efficiency and reliability has been made use of. Two monster Lord & Burnham boilers are installed in a spacious new boiler house of concrete and steel, which is now approaching completion.

Roses are not the exclusive product at Rowayton as chrysanthemums and carnations are also grown to a con-

siderable extent. The latter, in common with the carnation crops of other growers generally, are backward for the season. Beacon is the most promising variety in its present appearance and presages a fine fall crop. Of chrysanthemums there are many houses, all rather late in blooming. Crystal Gem, Golden Queen, Chrysolora and Oconto are the varieties now leading and the mid-season and late sorts are rapidly developing.

Extensive provision is being made here for the leading essential for up-to-date rose growing—sod—in large fields sowed down to humus producing crops.

CYPRIPEDIUM × POLLETTIANUM.



This pretty hybrid was introduced by Sander in 1891. It is the result of a cross between C. × callophyllum and C. oenanthum, the parentage of C. × callophyllum being C. barbatum × C. venustum. Our illustration is from a photo. by M. J. Pope.

GORDONIA ALATAMAHA.

With the exception of the Witch Hazel, which in this latitude is a shrub rather than a tree, this Gordonia is the last tree of the year to flower in the Arboretum, and its pure white, cup-shaped flowers, resembling a single Camellia flower, can now be seen. This handsome little tree has an interesting history. It was discovered by John Bartram, the famous Pennsylvania traveler and botanist, in 1765 near Fort Barrington on the Altamaha River in Georgia. John Bartram's son William visited the locality in 1778 and collected seeds and roots of this tree, and Dr. Moses Marshall who visited the locality in 1790 was the last botanist who had seen it growing naturally. Many botanists have hunted for it in vain in the neighborhood of Fort Barrington but without success, and this tree has been preserved by the plants and seeds collected by William Bartram and their descendants. Many of these are growing in gardens near Philadelphia and there are large and very old specimens in the neglected arboreta of the Brothers Painter at Medina and of John Evans in Radnor Township, Delaware County. Good plants may be seen in Fairmount Park near the Horticultural Building and in a few private gardens near the city. This Gordonia has been an inhabitant of the Arboretum for many years where it flowers in sheltered positions every autumn. Late in the season the leaves turn orange and scarlet before falling.

Arnold Arboretum Bulletin.

HORTICULTURE

VOL. XXIV

OCTOBER 21, 1916

NO. 17

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 147 Summer Street, Boston, Mass.

Telephone, Oxford 292.
 WM. J. STEWART, Editor and Manager.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—An Object Lesson in Landscape Art.	
NOTES ON CULTURE OF FLORISTS' STOCK—Allamandas—Carnations—Young Cinerarias—Planting Shrubs—Primulas for Christmas—Reminders— <i>John J. M. Farrell</i>	533
ROSE GROWING UNDER GLASS—Proper Cutting—Watering After a Crop—Leaky Faucets—The Heating Pipes Grading— <i>Arthur C. Ruzicka</i>	534
TUNICA SAXIFRAGA— <i>Richard Rothe</i> —Illustrated...	535
SOME HANDSOME AUTUMN SUBJECTS.....	537
CLUBS AND SOCIETIES—American Rose Society—Florists' Hail Association—Meetings Next Week—National Flower Show Committee—St. Louis Florist Club—Coming Exhibitions—Pennsylvania Horticultural Society—Gardeners' and Florists' Club of Boston—Nassau County Horticultural Society—Club and Society Notes.....	538-539
St. Louis Spring Flower Show.....	540
FALSE REPRESENTATION— <i>Elton J. Buckley</i>	543
SEED TRADE—Revising Estimates—Peas and Beans—Vine Seeds and Spinach—European Demand—Canners' Shortages—Potatoes and Onions Very High—One Week's Imports.....	544
Notes.....	543
OF INTEREST TO RETAIL FLORISTS:	
New Flower Stores.....	546
Flowers by Telegraph.....	547
NEWS ITEMS FROM EVERYWHERE:	
Chicago, Washington, Cleveland, Pittsburgh, Philadelphia, Boston, St. Louis, New York.....	548-549
FLOWER MARKET REPORTS:	
Boston, Chicago, Cincinnati, Cleveland, New York, Philadelphia.....	551
St. Louis, Washington.....	553
OBITUARY—H. J. Kenney—Richard Scomodau—A. C. Oelschig.....	535
MISCELLANEOUS:	
A Glance at Rowayton.....	535
Cypripedium × Pollettianum—Illustrated.....	535
Gordonia alatamaha.....	535
View in Highland Park, Rochester, N. Y.—Illustrated	537
Landscape Art.....	537
Catalogues Received—New Corporation.....	540
Insecticides Purer—Publication Received.....	542
To Kill the Chrysanthemum Leaf Roller.....	542
News Notes.....	546
Personal—Business Troubles.....	549
Visitors' Register.....	553
Greenhouses Building or Contemplated.....	558
Patents Granted.....	558

training in care of plants; good eyesight; must pass good physical examination.

The quality of many of the men employed in government or experiment station horticultural positions is sometimes scoffed at but what can be expected for the emoluments usually offered for such service?

Combating
 The H. C. D.

When passing through the passenger waiting room of one of the ferry houses in New York our attention was drawn to the flower stand where hung a card inscribed "Wedding and Funeral Designs, \$1.00." One sometimes hears or reads plaintive dissertations on "the High Cost of Dying," etc., but the next time we have to listen to such we shall refer the critic to that ferry florist for consolation. His generosity, as will also be seen, extends not only to the customer in mourning but to those matrimonially interested, and who can say that this florist is not "doing his bit" to discourage race suicide by holding down the "High Cost of Marrying"? But supposing that the young lady most interested in the event should rebel at this economical procedure? We recall a case where a colleen from the Emerald Isle disdainfully rejected a bridal bouquet of full-blown roses with "It's not ro-o-ses I want; it's boods!" We can see trouble ahead for those one-dollar wedding "designs." Funerals are safer for there the victim can't "kick."

The
 growing F. T. D.

The revised constitution and by-laws of The Florists' Telegraphic Delivery as adopted at the special meeting of that organization at Chicago last week shows much care in preparation and in fitting its provisions and requirements to the conditions encountered in the years that have elapsed since the Association was founded with no previous experience on which to draw as a basis for government. The document is lengthy and not necessarily one for reproduction in its entirety in our limited space, especially as copies are available to all who are sufficiently interested to ask Secretary Albert Pochelon of Detroit for same. Article 2, Sec. 1, however, should have much general interest for many of our readers and we reproduce it here, as showing clearly the objects of the Association:

The Association has for its objects: The mutual exchange of orders between retail florists in the different cities and towns in the United States and the Dominion of Canada; to educate its members in the proper handling and promotion of the exchanging of orders by telegraph, telephone, and mail; to give publicity to the service rendered by members of the Association in order to promote the out of town business of each member of the Association; to promote and encourage the exchange, between members of the Association, of ideas, principles, policies, methods and manner of handling and conducting the retail floral business, for the betterment and education of the members; to promote a good feeling and honest dealing between all members of the Association; to insure the prompt payment of all accounts contracted between members of the Association; and to further generally the interest of the retail floral business and encourage the co-operation of retail florists.

That is pretty good doctrine and has a very practical application where, perhaps, the florist trade has lacked greatly in the past. The rules as regards business between members are very carefully drawn with the object of obviating any causes for dissatisfaction such as may have transpired in previous operations and a sufficient advance in dues and payments into the guarantee fund to ensure financial stability under all circumstances. The outlook for the growth and expansion of the class of retail business promoted by this Association is very promising.

The job of nursery inspector under the State Board of Agriculture of Massachusetts for which civil service examination of applicants will be held next Monday, with its minimum salary of \$2.50 per day, ought to draw a big crowd of eager aspirants (?). We can already see, "in our mind's eye" the long line of botanical and entomological experts waiting for their turn! The few qualifications required include such trifles as the following:

One must know how to recognize growing plants and their kindred at a glance; how to recognize insect pests or fungus diseases; what insect pests and fungus diseases they have in foreign countries and not here; must have

What a
 chance!

SOME HANDSOME AUTUMN SUBJECTS.

VIEW IN HIGHLAND PARK, ROCHESTER, N. Y.

The Sassafras.

There is now no more beautiful tree on the margins of New England woods and by New England roadsides than the Sassafras, as the leaves have turned or are turning orange or yellow more or less tinged with red. The autumn colors of several trees are more brilliant but none of them equal the Sassafras in the warmth and delicacy of their autumn dress. The Sassafras is a handsome tree at other seasons of the year. In winter it is conspicuous by its deeply furrowed, dark cinamon-gray bark and slender light green branches; in early spring before the leaves appear it is covered with innumerable clusters of small bright yellow flowers which make it at that season a conspicuous and delightful object. The leaves are thick, dark green and lustrous above, paler below and vary remarkably in shape as they are sometimes deeply three-lobed at the apex and sometimes entire without a trace of lobes. The fruit is a bright blue berry surrounded at the base by the much enlarged and thickened scarlet calyx of the flower and raised on a long bright red stalk. No other northern tree produces such brilliantly colored fruit. Unfortunately there is little time to enjoy it for the birds eagerly seek it as it ripens. The living wood of the Sassafras is not attacked by borers and the leaves are not destroyed and are rarely disfigured by insects. The thick spongy roots of the Sassafras produce suckers freely and these with a little care can be easily and safely transplanted. How many persons now plant the Sassafras and in what American nursery can it be found? It was, however, one of the first North American trees carried to Europe as it was established in England some time before the middle of the seventeenth century. The American tree was believed to be the only Sassafras until 1879 when another species, *S. tzuma*, was discovered in central China. This tree is now in the Arboretum but its ability to grow here has not yet been established.

Crataegus Arnoldiana.

This thorn is a native of eastern Massachusetts and one of the first of the American species raised at the Arboretum where it was found growing wild on a wooded bank. It is a tree with a well developed trunk, erect and spreading branches which are furnished with many long stout thorns, the smaller branches being conspicuously zigzag. The flowers are large in ample clusters and open with the unfolding of the leaves which later grow



A Twenty-one Year Old Planting on the West Side of Highland Park

We present herewith one more view in Rochester's world-famed public reservation. As an example of landscape planting it makes an impressive con-

trast with the subject shown on the cover page of this paper. Formal or natural, each style each has its proper place in landscape art and when so used attracts and satisfies.

to a good size, and are dark green in color. The fruit, however, is the handsomest thing about this tree; it is nearly globose, about an inch in diameter and bright red, and beginning to ripen from the middle to the end of August falls gradually the end of September or early in October. Of the thorns in the Arboretum collection with early-ripening fruits *C. Arnoldiana* is the handsomest, and as a fruit tree it may well find a place in every American garden in which an early autumn display is desired.

Crataegus pinnatifida.

This is a native of northeastern Asia and has long been an inhabitant of the Arboretum. It is a large shrub or small tree with large, deeply divided, dark green very lustrous leaves, large flowers, and bright scarlet fruit which ripens while the leaves are still green. This is one of the handsomest of all thorns, and it is economically interesting because one of the large-fruited forms is cultivated in orchards as a fruit tree in the neighborhood of Peking and in other parts of northern China.

Chinese *Cotoneasters*.

The handsomest shrub in the Arboretum during nearly the entire month of September was a form from western China of *Cotoneaster racemiflora* which has been called variety *soongorica*. It is a tall shrub with spreading and drooping stems, pale leaves, white flowers, and large bright red fruits which completely cover the branches. Some of the Chinese species have more conspicuous flowers and

handsomer foliage, but none of them have yet equalled in the Arboretum this inhabitant of the dry arid river valleys of western Szech'uan in the size, brilliancy and abundance of their fruits.

Cotoneaster divaricata.

Of the large-growing Chinese species this is perhaps the handsomest at this time, for the small bright red fruits which are produced in great abundance make a handsome contrast with the small, dark green, shining leaves. The flowers of this shrub are small and bright rose color. The new Chinese *Cotoneasters* are best seen on the southern slope of Bussey Hill, and the collection will repay careful study as it contains some of the most valuable shrubs for American gardens of recent introduction.

—Arnold Arboretum Bulletin.

LANDSCAPE ART.

The picture which serves as our cover illustration this week is from a photograph taken at the home of Mr. and Mrs. Bayard Thayer at Lancaster, Mass., one of the most notable of New England's private estates, and tells its own story. We have several other interesting views from this estate, showing some of the beautiful trees growing there and which we shall take pleasure in presenting in subsequent issues of HORTICULTURE.

A very useful bulletin on the Egg Plant Tortoise Beetle by Thomas H. Jones, has just been issued by the Department of Agriculture, as Bulletin 422. This is the first comprehensive article thus far published regarding this pest which is somewhat widely distributed over the southern United States.

CLUBS AND SOCIETIES

AMERICAN ROSE SOCIETY.

The Executive Committee of the American Rose Society met in New York City on October 9th, and considerable business was gone over. A report was made in regard to the Washington Test Garden, that it had been materially improved since early spring, and that Dr. Van Fleet was to assume general direction of the same.

Application was received from Howard & Smith of Los Angeles, Cal., for the registration of a new seedling under the name of "California," described as follows:

"The rose 'California' in color is burnt orange shaded with golden yellow at the base of the petals. The flowers full; bud long and pointed; fairly fragrant; a strong vigorous grower in this climate, and practically mildew proof."

This rose has been investigated and the registration ordered.

The place of the next annual meeting was a topic of consideration and the suggestion has taken form to hold a Rose Society meeting in Philadelphia next spring. There were certain offers of a guarantee fund made by five individuals towards making it a success, and the matter by resolution was referred to President Pennock to make preliminary inquiry relative to the rose exhibit in Philadelphia in 1917 at the annual meeting.

Application and correspondence was gone over relative to a Rose Test Garden at Bellingham, Wash., also at College Station, Texas. It was decided to hold a meeting of the American Rose Society at the coming Chrysanthemum Show to be held in Philadelphia during November, when as many members of the American Rose Society as can it is hoped will attend. The fund for Rose Disease investigation by Prof. Louis Massey of Cornell University has been responded to so far by twenty-eight members of the American Rose Society.

BENJAMIN HAMMOND, Secy.
Beacon, N. Y.

FLORISTS' HAIL ASSOCIATION.

A meeting of the Board of Directors of the Florists' Hail Association of America was held at the Hotel LaSalle, Chicago, Ill., on Friday, October 13, 1916. President E. G. Hill of Richmond, Ind., presided, the following officers and directors being in attendance: J. F. Ammann, Edwardsville, Ill.; John G. Esler, Saddle River, N. J.; Anders Rasmussen, New Albany, Ind.; Charles P. Mueller, Wichita, Kan.; J. A. Valentine, Denver, Col.; Samuel Murray, Kansas City, Mo.; C. L. Washburn, Chicago, Ill.; Fred Burki, Gibsonia, Pa.

The only directors absent were J. J. Hess, Omaha, Neb., who was en route to the National Flower Show Committee meeting at St. Louis, and Hon. Jo in the midst of a congressional campaign and therefore unable to attend.

The officers of the past year were

Meetings Next Week

Monday, Oct. 23.

Florists' and Gardeners' Club of Rhode Island, Swartz Hall, Providence, R. I.

Gardeners' and Florists' Club of Baltimore, Florist Exchange Hall, Baltimore, Md.

Tuesday, Oct. 24.

Newport Horticultural Society, Newport, R. I.

Tarrytown Horticultural Society, Tarrytown, N. Y.

Wednesday, Oct. 25.

Oyster Bay Horticultural Society, Oyster Bay, N. Y.

Friday, Oct. 27.

Connecticut Horticultural Society, County Bldg., Hartford, Conn.

Monmouth County Horticultural Society, Red Bank, N. J.

Pasadena Horticultural Society, Pasadena, Calif.

People's Park Cottage Gardeners' Association, Paterson, N. J.

Saturday, Oct. 28.

Dobb's Ferry Gardeners' Association, Dobb's Ferry, N. Y.

re-elected, viz.: E. G. Hill, Richmond, Ind., president; J. F. Ammann, Edwardsville, Ill., vice-president; Hon. Joseph Heacock, Wyncote, Pa., treasurer; John G. Esler, Saddle River, N. J., secretary.

On motion, it was ordered that the Twenty-ninth Assessment to be levied on March 1, 1917, shall be at the rate of twenty cents per 100 sq. ft. on single strength, and eight cents per 100 sq. ft. on double strength glass; the increase over the last assessment being occasioned by the exceedingly heavy hail losses during the past season which necessitated the paying out of an unusual amount.

The charter of the Association which will have been in practical and successful operation for thirty years upon June 1, 1917, will be renewed under an Enabling Act of the New Jersey Legislature this coming winter, and the secretary was authorized to take the necessary steps to that end. The secretary was also authorized to file the list of Hail Association members with the secretary of the S. A. F. & O. H. for the purpose of securing representative upon the S. A. F. & O. Board through President E. G. Hill.

A large part of the day was given over to the discussion of the necessary changes in the by-laws, and J. A. Valentine of Denver, Col., was appointed a committee of one to draft the amendments in accordance with the trend of the discussion for eventual submission to the stockholders. These new amendments are expected to establish a fiscal year under which arrangement the annual meetings of the Association will be held at the call of the President after such fiscal year is concluded at such time and place as he may designate. The members of the Board are to be congratulated upon having successfully accomplished work that will be to the benefit of the Association. JOHN G. ESLER, Secy.

NATIONAL FLOWER SHOW COMMITTEE.

The special meeting at St. Louis on Friday and Saturday, Oct. 13 and 14, was attended by George Asmus, chairman, John Young, secretary, J. J. Hess, treasurer, Chas. H. Totty, W. P. Craig, A. Farenwald, and President-elect R. C. Kerr. Patrick Welch and Thomas Roland were unable to be present.

The committee were welcomed at the Jefferson Hotel by F. H. Meinhardt, J. J. Windler, H. C. Irish, Jules Bourdet, D. S. Geddis, H. J. Fillmore, A. Miller and Chas. F. Hatfield, secretary and general manager of the St. Louis Convention Bureau.

The committee were the guests of F. H. Meinhardt for breakfast at the Jefferson Hotel after which all the exhibition halls suitable for a flower show were visited and inspected. At noon the committee went into executive session at the Planters' Hotel. The final reports of the National Flower Show held in Philadelphia were received and all business in connection with that exhibition was cleared up.

By unanimous vote it was decided to hold the next National Flower Show in the spring of 1918 in St. Louis. By similar vote it was decided to lease the building known as the Coliseum for this exhibition and the dates to be April 6 to 15. The secretary of the committee was authorized to prepare the necessary floor plans showing available spaces for the trade exhibits and if possible to arrange for a scale of prices which would include the cost of booth and signs. This would assist in having one general scheme of arrangement and decoration in the trade section. Chas. H. Totty, Thomas Roland and A. Farenwald were appointed a committee to prepare a preliminary schedule.

The secretary was instructed to communicate with the American Rose, Carnation, and Sweet Pea Societies inviting them to co-operate with the National Flower Show by holding their annual meetings and exhibitions at the same time. The secretary was also authorized to raise immediately the usual guarantee fund of \$10,000.

Mr. Asmus tendered his resignation as chairman of the committee giving his reasons why some other member of the committee should be elected to that office. After being thoroughly discussed Mr. Asmus was induced to reconsider his decision and upon motion of Mr. Totty his resignation was not accepted.

At 6.30 P. M. the committee were the guests of the officials of the Convention Bureau at dinner in the Planters' Hotel. Among those present were Goodman King, president of the St. Louis Convention Bureau, and Chas. F. Hatfield, secretary of the same bureau, representatives of the daily press, Jules Bourdet, president of the St. Louis Florist Club, J. J. Windler, secretary, and A. H. Hummert, vice-president of the same club. Also W. W. Ohlweiler, J. J. Beneke, F. A. Windler, V. J. Gorley, Chas. Beyer,

Fred H. Meinhardt and David S. Geddis. Interesting addresses on the coming National Flower Show were made by George Asmus, Chas. H. Totty, David S. Geddis, Chas. F. Hatfield and Goodman King.

In the evening the committee attended a special meeting of the St. Louis Florist Club in the Coliseum Building. All of the officers of the St. Louis Florist Club were present and in addition there was an attendance of fifty-one members representing the different florists' interests of the city.

The early part of the meeting was presided over by George Asmus who made a rousing address calling attention emphatically to the necessary work attached to a National Flower Show. Each member of the committee in turn was called upon to enlighten the members present as to what was required to make the coming show the success it certainly will be. They also gave a detailed report of the work in connection with previous National Flower Shows and it was made very clear that this coming exhibition would have the benefit of this experience.

The meeting was then turned over to President Jules Bourdet, of the local club, who called upon each member present for a few remarks and all were enthusiastic and promised to assist in every way possible to make the next National Flower Show to be held in St. Louis more successful than any that have been held before.

Frank Robinson, secretary and manager of the Coliseum, who without question is one of the best show managers in this country, gave an interesting talk promising his support and assistance wherever possible. The National Flower Show will have the hearty support of the Business Men's League.

The National Flower Show Committees were very favorably impressed with their reception and were delighted to see the great interest and enthusiasm shown by the florists interests in St. Louis and later on when the local committees are appointed the work of the exhibition will go on with a rush, and there is no question but what the Fifth National Flower Show will compare favorably with any preceding flower shows.

After the meeting in the Coliseum the committee were entertained at supper by President Bourdet and other members of the Florist Club.

On Saturday morning another executive session of the committee was held and many important necessary details were arranged for. A visit was also made to Shaw's Botanical Gardens and the officials of this institution are very enthusiastic and pleased at the coming of the National Flower Show to St. Louis and will give their support both financially and otherwise.

JOHN YOUNG, Sec.

ST. LOUIS FLORIST CLUB.

The St. Louis Florist Club held its monthly meeting Oct. 12th at the St. Louis Cut Flower rooms, about fifty members present. The meeting was honored by the presence of President-elect R. C. Kerr of the S. A. F., who came here to attend the meeting of the National Flower Show Committee. Speeches were made by R. C. Kerr, F.

Coming Exhibitions

Oct. 26-27, Madison, N. J.—Twenty-ninth Annual Flower Show, Morris County Gardeners' and Florists' Society, James Assembly Hall.

Oct. 27-29, Mount Kisco, N. Y.—Fall show of the Northern Westchester County Hort. and Agri. Soc.

Oct. 31-Nov. 1, Greenwich, Conn.—Fall Flower, Fruit and Vegetable Show of the Westchester and Fairfield Horticultural Society.

Nov. 1-5, Boston.—Grand Autumn Exhibition of Plants, Flowers, Fruits and Vegetables, Massachusetts Horticultural Society, Horticultural Hall.

Nov. 1 to 3, Tarrytown, N. Y.—Chrysanthemum show of the Tarrytown Hort. Soc. in Music Hall.

Nov. 2-3, New Bedford, Mass.—New Bedford Horticultural Society, Annual Chrysanthemum Show.

Nov. 8, Philadelphia.—Chrysanthemum Society of America in conjunction with Pennsylvania Horticultural Society.

Nov. 8-10, New York.—Annual Chrysanthemum show of the American Institute, Engineering Society Bldg., 25-33 W. 39th St., New York.

Nov. 9-10, Bloomington, Ill.—Fall Flower Festival, Illinois State Florists' Association.

Nov. 9-11, Lancaster, Pa.—Fall flower show.

Nov. 9-12, New York.—Fall exhibit Horticultural Society of New York at Museum of Natural History.

Nov. 10-11, Cleveland, O.—Second Annual Flower Show, Hotel Hollenden.

Nov. 11-19, New Orleans, La.—Flower show.

Nov. 14-15, Providence, R. I.—Flower show of R. I. Hort. Soc.

C. Weber, Jr., Fred Ammann and others. Frank Gorly spoke on publicity and Mr. Ohlweiler urged co-operation to make the Spring Show of 1917 and the National in 1918 record successes.

PENNSYLVANIA HORTICULTURAL SOCIETY.

The monthly meeting of the above society was held on October 18. There was a good attendance to listen to a most entertaining illustrated lecture by Arthur Herrington on "Spring Bulbs, New Ideas in Planting and Arrangement." There was a nice showing of cosmos and chrysanthemums. After the lecture the business meeting was held in the library.

CLUB AND SOCIETY NOTES.

An Executive meeting of the American Rose Society will be held at the Hotel Breslin, Broadway and 29th street, New York City, on Monday, October 23rd, at 2 P. M., to decide on a place of meeting and to make arrangements for the next annual show.

The October meeting of the Rhode Island Horticultural Society was held Wednesday evening, October 18, 1916, in Manning Hall, Brown University. Professor Albert F. Blakeslee, Cold Spring Harbor, Long Island, New York, gave an illustrated lecture on "The Value of Modern Plant Breeding to the Horticulturist," showing a very interesting set of slides. E. K. Thomas of State College, Kingston, R. I., is secretary.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

An enthusiastic meeting of the club was held on Tuesday evening, October 17, 110 members being present and six new members added. Resolutions on the death of Jackson Dawson were adopted, the committee on resolutions being A. P. Calder, Sr., Duncan Finlayson and T. D. Hatfield.

Herman H. Bartsch lectured on chrysanthemums from the commercial standpoint, and he said to produce chrysanthemums such as the Wm. W. Edgar Company marketed, cost them \$7.00 per hundred to grow, and if they got \$10.00 a hundred for them they considered that a fair profit. He went very minutely into the culture of the leading varieties, etc.

Eric H. Wetterlow of Manchester, Mass., spoke on the growing of specimen blooms from the private gardener's point of view. He found that growing in 8-inch pots was superior to growing in benches, and that they could not be grown for less than \$9.00 per dozen blooms. A lengthy discussion followed the reading of both papers.

On the exhibition table were Chrysanthemums Polly Rose and Oconto from W. W. Edgar Company; vase of chrysanthemums from W. E. Pratt; Chrysanthemums Hortense Malgat and Cranfordiae from W. N. Craig, also Bouvardia Humboldtii and Pure Culture Mushrooms; collection of mounted specimens of our native flowers from W. H. Judd, Arnold Arboretum; also displays of apples from several exhibitors. All these exhibits were awarded a vote of thanks.

There was quite a lengthy discussion on the proper protection of trees and shrubs during the winter from the ravages of rabbits, etc., and the use of burlap and slightly smearing the stems with coal tar was considered to be the best preventive.

It was announced that John Davy, of Kent, Ohio, the original tree surgeon, would give a stereopticon lecture at the next meeting, Nov. 21, his subject being "Trees, Insects, Birds." The club plans to invite several other societies to join them on that evening to hear and enjoy this lecture.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The monthly meeting of this society was held at Glen Cove, N. Y. on Oct. 11. Final arrangements were made for holding the Chrysanthemum Exhibition on Nov. 2 and 3. James Gladstone was appointed manager of the same. It was decided to hold a smoker after our next meeting on Nov. 8. Robert Jones offered a prize of ten dollars for the best table decoration of chrysanthemums by assistant gardeners, to be competed for at that meeting. An essay received from the Association of Gardeners on "Malnutrition in Trees" by Arthur Smith was read and discussed.

JAMES MCCARTHY, cor. secy.

FIRST IMPORTATION

Boxwoods, Rhododendrons, Evergreens, Etc. Bulbs of every description

JOHNSON & MILLANG, Inc., Auctioneers
Coogan Building, 55-57 West 26th Street, New York
(Under Cut Flower Exchange)
Monster Auction Sales Every Tuesday and Friday at 10 A. M.
10,000 square feet devoted to our auction business
WRITE FOR CATALOGUE

ST. LOUIS SPRING FLOWER SHOW.

An "International" Spring Flower Show will be held in St. Louis, March 15th to 18th, 1917. The prizes to be offered will be so arranged that not only professional growers, private gardeners and amateurs may compete, but also the Botanical Gardens, City Parks and Greenhouses in the United States and Canada. All branches of horticulture are considered in the competitive classes. The grower, wholesaler, retailer, florist, nurseryman, landscape gardener and the fruit and vegetable grower, all will have opportunities to exhibit their skill. The competition will also include exhibitions of the different methods of packing plants and flowers. There will be lectures as well as demonstrations, and no trouble or expense will be spared to make this one of the most successful flower shows ever held. The Exhibition Hall is centrally located, easy of access, and not far from the Union Station.

The officers are as follows:

Executive Committee—Jules Bourdet, chairman; W. A. Rowe, treasurer; F. A. Windler, Adolph Jaenicke, G. B. Windler, J. F. Ammann, W. W. Ohlweiler.

Manager of Show—Jules Bourdet.

Executive Secretary—W. W. Ohlweiler, Missouri Botanical Garden.

Chairmen of Sub-Committees—Finance, W. A. Rowe; Premium, A. Jaenicke; Publicity, F. A. Windler; Guarantee Fund, A. H. Hummert; Special Premiums, G. B. Windler; Entertainment, J. S. Carter; Admission, C. Beyer; Program, J. J. Windler; Auditing, H. G. Berning; Patrons, W. W. Ohlweiler; Judges, J. F. Ammann; Reception, J. J. Beneke; Trade Displays, W. J. Pilcher; Growers' and Nurserymen's Display, Frank Weber; Retail Display, F. C. Weber, Jr.; Private Gardeners, L. P. Jensen; Parks and Gardens, E. Strehle; School Exhibits, H. C. Irish; Landscape Gardeners, C. W. Fullgraf; Special Exhibits, W. S. Wells; Exhibition and Hall, W. C. Smith; Decoration, D. S. Geddes.

CATALOGUES RECEIVED.

Niles Nursery Co., Niles, Mich.—Trade List of Hardy Plants.

J. Chas. McCullough Seed Co., Cincinnati, O.—Fall Catalogue of "A Modern Seed Store."

Harrison's Nurseries, Berlin, Md.—Wholesale Catalogue of Select Stock for Fall Delivery.

W. Atlee Burpee & Co., Philadelphia.—Burpee's Sweet Peas for 1917 and Other Novelties in Flower Seeds. Illustrated.

Fraser Nursery Company, Huntsville, Ala.—Annual Wholesale Price List, Fall 1916 and Spring 1917. For Nurserymen and Dealers Only. Illustrated.

V. Lemoine & Son, Nancy, France.—Catalogue No. 190, for Autumn, 1916. As always, an instructive and engrossing list of the finest garden subjects. Illustrated.

NEW CORPORATION.

Schenectady, N. Y.—Empire Seed Co., capital stock \$5,000. Incorporators, Charles Vernon, Chas. D. Filkins and Harry E. Stevens.

York, Neb.—C. S. Harrison announces that he has sold all his interest in the C. S. Harrison Select Nursery to H. S. King of York. Any person wishing to communicate with him should address C. S. Harrison, 829 York Ave., York, Neb. We understand that Mr. Harrison reserved a few thousand of the choicest irises, peonies and other perennials, together with the Chinese tree lilacs, which in due time will be offered to the trade only.

CARNATIONS

Field Grown

ENCHANTRESS SUPREME. EUREKA WHITE WONDER. PINK DELIGHT.
\$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL, MATCHLESS,
\$7.00 per 100; \$65.00 per 1000.

LADY NORTHOLIFF, PINK WINSOR, WHITE WINSOR.
\$6.00 per 100; \$50.00 per 1000.

WOOD BROS., FISHKILL, N. Y.

JAPAN IRIS SEEDLINGS

*From Home Grown and Imported
Seed insuring a splendid
range of colors*

50c. per doz.; \$3.00 per 100;
\$25.00 per 1000

Send for New Catalogue

**JOHN LEWIS CHILDS, INC.,
FLOWERFIELD L. I., N. Y.**

CARNATIONS

**F. DORNER & SONS CO.
LA FAYETTE, IND.**

ELMER D. SMITH & CO. CHRYSANTHEMUMS

Ask for Catalogue
ADRIAN, - - - MICH.

**CHARLES H. TOTTY
CHRYSANTHEMUMS
MADISON, N. J.**

CHRYSANTHEMUM ALEX. GUTTMAN

The best Early Lavender-Pink in the Market. Blooms have been selling for \$6.00 per dozen since middle of September. Stock Plants, 75c. each, \$7.50 per doz.

GUTTMAN & RAYNOR, INC.
Wholesale Florists
101 West 28th St., New York, or FRANK DINDA, Farmingdale, N. Y.

**A. N. Pierson, Inc.
CROMWELL, CONN.
Bedding Plants and Roses**

RICHMOND CEDAR WORKS

RICHMOND, VA.

Largest Manufacturers in
the World of

CEDAR PLANT TUBS

Send for Price List and
Booklet in Colors

BULBS and BOXWOOD at AUCTION

MAMMOTH SHIPMENTS OFFERED EACH
TUESDAY and FRIDAY

AT TEN O'CLOCK, A. M.

ALSO LOCAL CONSIGNMENTS OF

**Palms, Ferns, Dracaenas, Rubbers, etc., to be offered in lots
to suit the large and small buyer**

Send for weekly auction catalogue.

The MacNiff Horticultural Co.

52 to 56 Vesey Street, NEW YORK

THE LARGEST HORTICULTURAL SALESROOMS IN THE WORLD

TREES

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties. Sturdy, choice stock that can be depended upon. Send for catalog and special trade prices.

The Bay State Nurseries

North Abington
Mass.

SHRUBS

This New England and climate produces fine sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate

BAILEY'S NEW STANDARD Cyclopedia of Horticulture

Six large quarto volumes. More than 3,600 pages. 24 exquisite full-page color plates. 96 full-page sepia halftones and more than 4,000 text engravings. 500 collaborators. Approximately 4,000 genera, 15,000 species and 40,000 plant names.

The new Standard Cyclopedia of Horticulture has been freshly written in the light of the most recent research and experience. It is not merely an ordinary revision or corrected edition of the old Cyclopedia, but it is a new work from start to finish with enlarged boundaries geographically and practically; it supersedes and displaces all previous editions or reprints of every kind whatsoever. It is both an Encyclopedia and a Manual, for with the aid of its Synopsis and Key, amateur and professional alike may quickly identify any plant, shrub or fruit contained within the set, and then receive expert instructions for its cultivation. Price \$6.00 per volume. Five volumes have now been issued and the others will follow in succession. Order from

HORTICULTURE PUBLISHING CO.

147 Summer Street, Boston, Mass.

REMEMBER!

If it's a Hardy Perennial or so called Old Fashion Flower worth growing, we have it in one shape and another the year round. We have the largest stock in this country, all made in America, and our prices

will average 75c. per doz., \$5.50 per 100.

Why say more here? Send for our Wholesale Price List of varieties and benefit from the opportunities this affords you. Address

PALISADES NURSERIES, Inc.

E. W. CLUCAS, Manager.

SPARKILL - - N. Y.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St. Westchester Heights
P. O. No. 1, Hoboken N. J.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY. Small, medium and large sizes supplied. Price list now ready.

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers in America.

BOX 415, DUMBER, ILL.

When writing to advertisers kindly mention HORTICULTURE.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

HATBORO, PA.

In Stock ROSE STAKES

EXTRA STIFF No. 9 GALV. WIRE
4½ feet—\$18.05 per 1000

CARNATION SUPPORTS

\$18.00 per 1000 plants.

THE CARNATION SUPPORT CO., Connorsville, Ind.

ROBERT CRAIG CO., ROSES, PALMS.

and Novelties in Decorative Plants
MARKET and 49th STREETS, PHILADELPHIA, PA.

HYDRANGEA OTAKSA & AVALANCHE

Field grown plants, ready for 6-inch pots; \$14.00 per 100.

ANGLIN & WALSH CO.

W. Liamsbridge, N. Y.

BOBBINK & ATKINS

Nurserymen, Florists
and Planters

RUTHERFORD, NEW JERSEY

INSECTICIDES PURER.

That the Insecticide and Fungicide Act of 1910 has resulted in marked improvement in the quality of insecticides and fungicides entering interstate commerce is shown by the annual report of the Insecticide and Fungicide Board for the fiscal year ended June 30, 1916. Persistent sampling of four of the leading substances used in spraying shows a marked reduction in the number of violations of the act compared to preceding years. In 1915 only 8 per cent. of the samples of lead arsenate taken were in violation of the act, whereas in 1911-12 60 per cent. violated the law. Similarly the violations found in lime-sulphur solutions had fallen from 94 per cent. to 14 per cent., and Bordeaux mixture from 98 per cent. to 36 per cent. Only 19 per cent. of the shipments of Paris green examined showed any violation, whereas in 1911-12 28 per cent. of these shipments were objectionable.

While these results are probably due partly to the effect of deterrent prosecutions, they are due in even greater measure to the assistance the Department's scientists have accorded to manufacturers in making their products of standard strength and to the growing practice on the part of manufacturers of adapting themselves to improved methods and tests.

In this work during the past year, the inspectors collected 1,487 samples of different shipments. Of these, 190 were of insecticidal preparations for household use and 221 were of disinfectants, germicides, and bactericides for the prevention of diseases of human beings as well as of domestic animals. The Department during the past year has given particular attention to the prevention of the sale in interstate commerce of products recommended for household use which are either impotent or the value of which is misrepresented on labels. Many samples of arsenates, Bordeaux mixtures, sulphur and other preparations also were taken.

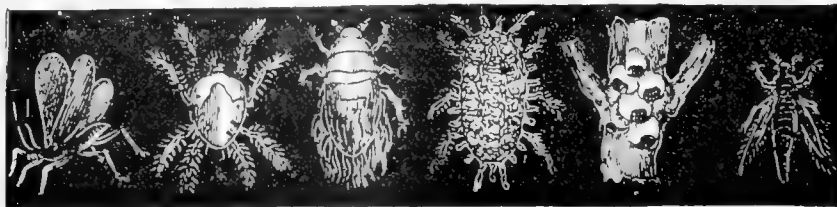
In preventing the importation of misbranded or adulterated insecticides, the Insecticide and Fungicide Board collected 35 import samples. In the case of 5 preparations it was recommended that entry into this country be entirely forbidden or that the consignments be released only after being correctly labeled. In 9 other cases it was recommended that future shipments be detained. The remaining samples complied with the law.

The Board devotes considerable attention to investigational work for the determination of the value of various commercial insecticides and fungi-

Hammond's Thrip Juice No. 2

REGISTERED

A Contact Insecticide, Useful and Reliable, Used for 30 Years in Greenhouses, and on Plants, Grape Vines, Trees and Shrubs



Some common Sucking Insects, magnified.

HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.

cides. It announces that it has under way tests of the merits of commercial dust and liquid sprays in the control of insects and diseases. These will include tests of articles composed of finely ground sulphur in combination with arsenate of lead, with a diluent such as finely ground lime or gypsum. The Board also is investigating the value of different commercial pyrethrum powders, tobacco powders, nicotine solutions, etc., when used as sprays, dusts or fumigants. Experiments have been made to determine the action of potassium cyanide and other substances in the control of insects and plant diseases when injected into the tissues of plants.

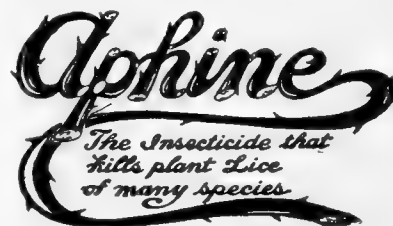
TO KILL THE CHRYSANTHEMUM LEAF ROLLER.

A bit of very useful information for plant growers developed in conversation with F. C. W. Brown of J. M. Gasser Co., Cleveland, Ohio. In discussing the greenhouse pest known as the leaf roller, which is often the cause of serious injury to chrysanthemum plants, he gave the following formula for a spray which he said was the result of much study and had proved most effective:

"One level teaspoonful of paris green, mixed to a paste with nicotine, and then diluted with two gallons of water to which had been added one-half pound of brown sugar. This does not discolor the foliage and is harmless to everything except the leaf roller."

PUBLICATION RECEIVED.

A very serviceable document for the use of greenhouse workers is Bulletin 296, recently issued by the New Jersey Experiment Station at New Brunswick, N. J. It treats very fully and practically on the more important of the destructive greenhouse insects, giving pictures showing their various stages, describing their life history, food plants and the injury caused by each, with directions for their control. Harry B. Weiss is the author.



The Recognised Standard Insecticide. A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporising.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SOALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON



NIKOTEEN
For Spraying
APHIS PUNK
For Fumigating
Ask Your Dealer For It.
NICOTINE MFG. CO.
ST. LOUIS

In Writing Advertisers
Kindly Mention
HORTICULTURE

FALSE REPRESENTATION

Never Bring a False Representation Case Without Fullest Investigation.

About six months ago a seed dealer doing business about seven miles from this city, opened an account with us. He came fairly well recommended and made a financial statement which our credit man thought warranted a line of several hundred dollars. We continued to sell him on regular terms, and he paid promptly, until about two weeks ago, when we heard rumors that he was a snide and was getting ready to fail. We investigated this, and found information which indicated that it was true. We then investigated a little further and apparently found that some real estate which the customer had given in his statement as a part of his assets, was really in his wife's name and was not liable, so our attorney advised us, for his debts. Being told this, and in order to forestall what we believe was our coming loss by reason of his failure, we had the man arrested for obtaining credit under false pretences regarding the ownership of real estate, hoping that this might at least get us a settlement of our account. He was held in bail for court, and the case is still not disposed of, but we have learned that we were in error about the false representation. The real estate in question was in his name at the time he set it forth in his statement and is in his wife's name now, but only because his wife exchanged some other real estate for it. This customer was worth what he said he was, and it therefore looks as if we were wrong in having him arrested. What course can he take against us? We hear that he intends to do something.

I withhold both the name and address of the writer of this, because otherwise I should not like to answer it publicly. I want to answer it publicly because it touches a subject of general interest and of much importance.

The very day I received this letter, a Philadelphia court gave to one Isaac Gross, a general storekeeper, a verdict of \$3,075 against a Philadelphia wholesale house—Lichtenstein Bros. & Sons. The facts were similar to those set forth in the above letter. The jobbing house accused Gross of obtaining goods from them under false statements as to his financial responsibility. He denied it, and they had him arrested. He was tried and acquitted, and at once brought suit for damages for malicious prosecution. The verdict of \$3,075 is the result.

There is no doubt that in the case cited in the above letter the customer can bring suit against my correspondent for malicious prosecution. Whether he will win it is of course a different thing, but he has all the elements to work with. He was accused and arrested for a criminal offense, thereby being put to expense and shame. When tried he will doubtless be acquitted, as there will be no evidence against him. I am free to say that if I were his counsel I should advise him that the next step should be the bringing of a suit for malicious prosecution.

It is a malicious prosecution when A brings a criminal action—in most States a civil action also—against B, upon insufficient grounds. It can be knowingly done, it can be recklessly

The Sensational Pink Sweet Pea YARRAWA

BRIGHT ROSE-PINK

This variety leads all others for color, size of bloom, length of stem and long flowering period. Order the original stock from Boddington's and increase your profit.

Arthur T. Boddington Co., Inc.,
128 Chamber St., New York.

Inclosed is list of Sweet Peas to be sent at your earliest convenience.

Perhaps it would interest you to know what result I had from one ounce of Yarrawa last winter. It bloomed continuously from Feb. 15th until the end of June and netted \$77.50, none being sold for more than \$1.00 per 100.

If you know of anyone doing better kindly let me know.

Yours truly,

(Signed) THOMAS DUKE.

R. F. D. 1, Troy, New York, July 15, 1916.

Australian Seed, oz. \$2.00, ¼ lb. \$7.00, lb. \$24.00, 5 lb. \$110.00

Californian Seed, 1.65, 2.25, 8.00, 37.50

5 per cent. discount, cash with order

Catalogue of Seasonable Seeds and Bulbs free on request

ARTHUR T. BODDINGTON CO., Inc.

128 Chambers Street, New York

done, or it can be carelessly done. Even if the prosecutor thought his ground was good, he is held responsible if it proves to be bad, if he could have found it was bad had he looked the matter up before acting. Nobody is expected to issue a warrant for another person's arrest unless he knows precisely what he is doing.

It will therefore not be enough for this correspondent to say "I acted in good faith, believing I was right." He must further say, "I investigated and had every reason to believe I was right."

That means what the law calls "probable cause." If the prosecutor who is afterward sued for malicious prosecution had probable cause for what he did, he is not liable in damages, because then the law says the act was not malicious. What is probable cause? Any state of facts which after careful investigation would convince the average man that the person whose arrest he was contemplating was guilty. In other words, if the above correspondent carefully investigated all reasonable sources of knowledge, and everything he found pointed to his customer's guilt, then he had probable cause. But if he only partially investigated—in other words, if he was careless, if he jumped at conclusions, the jury would almost certainly hold that he had no probable cause and mulct him in damages.

Before having a customer arrested, or anybody else, for that matter, always consult a lawyer. *Always.* The fact that you acted on an attorney's advice is always considered evidence

in your favor, as showing probable cause and absence of malice.

Every man who obtains money or goods, or anything whatever, under false representations, should be arrested as an example to others. Moreover, it is usually the quickest way to induce him to undo the wrong he has done. But never do it until you have carefully looked up every fact which could bear upon his guilt. In the case submitted by the above correspondent, I should have taken my warrant, and an officer to serve it, to the customer and confronted him with the evidence I had against him. It he had any explanation, I should investigate it before serving the warrant. If he gave none, the case against him would be very much strengthened, and I should serve the warrant then and there. Apparently this course would have prevented the above situation.

(Copyright, October, 1916, by Elton J. Buckley.)

SEED TRADE NOTES.

Wethersfield, Ct.—Hart, Welles & Co., seedsmen, have dissolved partnership. Mr. Welles retiring from the business. The firm name has been changed to the Chas. C. Hart Seed Co.

The many friends of Fred Peterson, now connected with J. F. Noll & Co., of Newark, N. J., will be pleased to learn that he is convalescing satisfactorily from his recent operation for appendicitis. He has not yet been able to return to business, probably will not be for some weeks, but he is on the mend.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

Revising Estimates.

Crop estimates this year are undergoing many changes, and these are generally on the declining scale. It thus comes about that estimates made in the field some weeks ago are found, when actual deliveries are made, to be considerably out of line. We understand that this will apply to several varieties of peas, and while no figures have been given as to probable deliveries of beans, the growers themselves had formed mental estimates which they have been obliged to revise because the crops have not come in according to expectations or because weather conditions—frost or otherwise—have damaged crops that looked as if they might make seed some weeks ago. While these remarks are perhaps too general to suit many of our readers, we cannot be any more specific with the information at hand.

Two of the items in beans which were the most abundant last year, and which nearly everyone seemed to have, were the Black Valentine and the Late Refugee. This year these items, particularly the latter, will be among the very short ones, and prices are likely to rule higher than on those varieties which are usually at a premium over either one of these two.

Peas and Beans.

It probably will not be long before the seed growers will send out estimates of their expected deliveries of beans. One of the largest growers of peas and beans has sent out their estimate of deliveries of peas. These estimates show that with the exception of the Dwarf Telephone, on which they will deliver only 20 per cent., all other garden peas will be nearly or quite 100 per cent., the exception being the Pioneer, Peter Pan and Laxtonian, of which they will deliver 75 per cent. Both Black Eye and White Eye Marrowfats will be short, probably not over 50 per cent., and quite possibly less. Canada Field peas will be very short and no percentages are named.

Many weeks ago we expressed the opinion that from reports that had reached us we believed peas would be good property to own this year. This opinion has now been fully confirmed. Alaskas are now selling at about \$7.25 to \$7.50 per 100 lbs. delivered in New York, and the smooth Extra Earlies at close to the same figures, while White Marrowfats are even higher. Practically all garden peas are now selling at from \$1.00 to \$1.50 per bushel above the contracting prices of last spring, and it looks as if the top had not yet been reached. Beans are still a more or less unknown quantity, but as previously stated, it cannot be long before the growers will find it necessary to submit some kind of estimate to their customers.

MICHELL'S BULBS

HYACINTHS

First Size Named. Single and Double.
Second Size Named. Single
Third Size Named. Single.

TULIPS

Single Early, Double Early, Cottage Garden and Darwin. In named varieties and mixtures.

NARCISSUS

Single and Double. A large variety.

LILIUM FORMOSUM

Green Stem Type. For early flowering.
Dark Stem Type. For Easter blooming.

Lil. Longiflorum Giganteum
Lil. Longiflorum Multiflorum

Write us your requirements on any of the above or any other Seasonable Bulbs.



LILIUM FORMOSUM

OUR WHOLESALE CATALOGUE OF BULBS, SEEDS AND FLORISTS' SUPPLIES FREE.

HENRY F. MICHELL CO., 518 Market St. PHILADELPHIA.

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

Vine Seeds and Spinach.

Nearly all vine seeds, particularly cucumbers will be in abundant supply. This applies particularly to the standard varieties. There will, of course, be some odds and ends which will be short. We have mentioned in previous issues that one of these items will doubtless be Early Summer Crookneck and Giant Summer Crookneck squash. Hopes are entertained that through diplomatic pressure the embargo on spinach seed may be lifted so that dealers will be able to get at least a part of the quantities contracted for in Holland. There is a report that a certain Long Island cabbage seed grower has been experimenting with the growing of spinach seed somewhere in the central or western part of New York State. We have not learned the result.

European Demand.

We have referred heretofore to an active demand for peas from Europe, particularly England and France. We understand that a considerable quantity of Extra Early peas have been sold to a leading French seed house, while several prominent British dealers have been buyers of the large podded early and late varieties. They are still buyers, but at last reports had not been able to cover their requirements.

Canners' Shortages.

Now that the crop season for the canners is practically at an end it is known that the shortages in the four leading items in the vegetable line, peas, string beans, corn and tomatoes will be even shorter than some of these items were estimated some weeks ago. Just what the pack of

peas was, became known some weeks ago, but the other three items have been undetermined until very recently. Severe frosts have finished all crops of tomatoes, beans and corn, and it may be said, in a general way, that string beans will not be above 40 per cent. of last year's pack, corn from 40 to 50 per cent., and tomatoes but little over 50 per cent. These points are mentioned because many of the seed trade sell to canners the seeds they use, and are thus indirectly interested.

Potatoes and Onions Very High.

According to the report of the National Department of Agriculture, potatoes are the shortest they have been in five years or more, and it is thought that record prices will be realized by midwinter for fancy clean stock. The onion crop is short and prices are running unusually high for this time of year, and this will apply to onion sets. It looks like another year of high prices for both sets and large onions.

One Week's Imports

Imports at the port of New York, of horticultural material, for the week ending October 6th, were recorded as follows:

Bulbs—Netherlands, \$146,961; England, \$736; Hongkong, \$943; Japan, \$2,523.

Plants—Belgium, \$726; Netherlands, \$2,275; England, \$1,191; Brazil, \$677; Colombia, \$128; Venezuela, \$530.

Clover Seed—France, \$13,237.

Grass Seed—Denmark, \$10,448; England, \$10,431.

Other Seeds—France, \$5,007; England, \$3,833; Hongkong, \$384.

Salts of Potash—Japan, \$5,467.

Nitrate of Soda—Chile, \$640,276.

Lilium Harrisii Bulbs

	Per 100	Per 1000
5 in. to 7 in.	\$5.00	\$40.00
7 in. to 9 in.	9.00	80.00
9 in. to 11 in.	22.00	

FREESIA REFRACTA ALBA

	Per 100	Per 1000
Mammoth Size	\$1.75	\$12.00

For Immediate Delivery

**PAPER WHITE NARCISSUS
GRANDIFLORUS**

Prices on Application

J. M. THORBURN & CO.

53 Barclay Street
Through to 54 Park Place
NEW YORK CITY

KELWAY & SON

SPECIALIZE IN

SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or
Forward

Only Address, LANGPORT, Eng

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragons on
the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.

PHILADELPHIA, PA.

My new Price List of
WINTER-ORCHID-FLOWERING SWEET
PEA SEED

Has been mailed. If you have not received
a copy, send me postal. Part of new crop
will be ready early in July.

ANT. C. ZVOLANEK

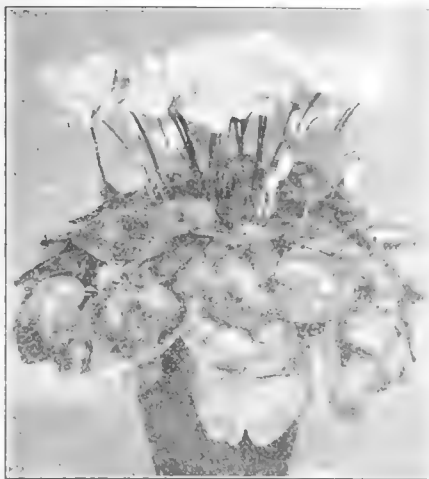
Sweet Pea Ranch Lompoc, Cal.

THOMAS J. GREY COMPANYSEEDS, BULBS AND IMPLEMENTS
WHOLESALE AND RETAIL.

Reselected Strains in Seeds.
Improved styles in Implements.
Catalogue upon application.

29 So. Market Street

BOSTON, MASS

**FARQUHAR'S GOLD MEDAL
CYCLAMEN**

Awarded Gold Medal of
the Massachusetts
Horticultural Society

Strong Plants from
4 inch pots, for
delivery now, at
\$25.00 per 100.

R. & J. FARQUHAR & CO., 6 South Market Street
BOSTON

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.**SEEDS, BULBS, PLANTS**

AND

Florists' Necessities

AMERICAN BULB CO.

172 N. Wabash Ave., Chicago, Ill.

LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

NEW CROP SEEDS

PANSY SEED. Giant flowering florist mixture. American grown. (Best money can buy.) 50c. per tr. pkt., 1/4 oz. \$1.50, oz. \$5.00.
PANSY SEED SPECIAL. Greenhouse mixture for forcing; long-stemmed. \$1.00 per tr. pkt., 1/4 oz. \$1.50, 1/4 oz. \$2.50; oz. \$8.00.
SWEET PEAS. Zvolanek's Orchid Flowering in all varieties. I have his agency this season.

ROMAN J. IRWIN,

Plants, Cuttings, Bulbs, Seeds.
108 West 28th Street - New York.

When writing to advertisers kindly
mention HORTICULTURE.

FORMOSUMS

We still have in fine condition a
small quantity of 7 to 9 and 9 to
10 inch Bulbs.

DON'T DELAY**YOKOHAMA NURSERY CO.**

Woolworth Building, New York

**LILIUM FORMOSUM
LILIUM HARRISII
LILIUM GIGANTEUM**

Prices on Application. Write for 1916
Bulb Catalog.

JOSEPH BRECK & SONS' CORP.
47-54 North Market St., Boston, Mass.

**W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries**

166 W. 23rd St., NEW YORK

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

Penn
The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.
BOSTON

FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

MAX SCHLING

22 West 59th St.

Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

The **Park Floral Co.**

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York

Telephone 1883-1888 Columbus

Of Interest to Retail Florists

NEW FLOWER STORES.

Tulsa, Okla.—O. O. Boston, 162 Third street.

Brooklyn, N. Y.—Jack Trepel, 480 Fulton street.

Indianapolis, Ind.—A. P. Reynolds, Circle Theatre.

Pittsburgh, Pa.—Albert Brigg, 902 Federal street, N. S.

Providence, R. I.—Mark A. Cassidy, 89 Washington street.

Detroit, Mich.—St. Regis Flower Shop, Kresge Building.

Chicago, Ill.—Leveson Floral Co., Cleveland and Lincoln avenues.

Brooklyn, N. Y.—Hollender, the florist, Church avenue, Flatbush.

New Orleans, La.—F. J. Reyes & Co., branch store, 527 Canal street.

Albany, N. Y.—Wm. C. Gloeckner, branch store, 5 New Scotland avenue.

Chicago — Garland Floral Co., 7409 N. Clark St., with Mrs. J. A. Weber in charge.

NEWS NOTES.

Rogers, Ark.—Mrs. Ida Hudspeth has purchased the Davidson greenhouses.

Montgomery, Ala.—A. M. and A. T. Spies have leased the Morning View Greenhouses.

Camden, N. Y.—Sidney R. Wells has taken over the greenhouses and business of Harvey B. Snow.

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. BOSTON

Telephone Main 84.

**JOHN BREITMEYER'S
SONS**

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUDE BROS CO
1214 F ST NW
WASHINGTON DC

GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE

National Capital

At your service to deliver flowers or Designs on Order by Telegraph or otherwise. Prompt Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

J. B. KELLER SONS,
FLORISTS

25 Clinton Avenue, N.

Rochester Phone 306. Long Dist. Bell Phone 2720
Members Florists Telegraph Delivery

YOUNG & NUGENT

42 West 28 Street

New York

Members Florists' Telegraph Delivery

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction

MEMBER F. T. D. A.

CHICAGO

Send Your Orders to

WILLIAM J.**SMYTH**Member Florists' Telegraph
Delivery Association**Michigan Ave. at 31st Street**Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
We take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1836 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1591 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Member Florists' Telegraph Delivery Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE125,000 Sq. Ft. of Glass
WORCESTER, MASS.**Flowers by Telegraph**

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State
St.

Albany, N. Y.—The Rosery, 23 Steuben
St.

Albany, N. Y.—William C. Gloeckner, 97
State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont
St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

New London, Conn.—Reuter's.

New York—J. H. Small & Sons, 505 Mad-
ison Ave., at 52d St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. B. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

REUTER'S Members Florists
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,**CLEVELAND**

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work

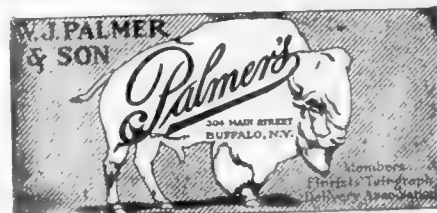
DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F.T. D. Association

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

A. Henderson Co. is now receiving Dutch bulbs. As the supply coming is limited, only those who get their orders in promptly will be sure of stock which so far appears fine.

The convention of the Florists' Telegraph Delivery was characterized by one who was present, as a meeting for business, which was conducted by business men in a business-like manner. This sounds well for the retail florists.

The American Bulb Co. is pleased with its beginning and orders are coming in which keeps the hands busy. Just now *Lilium giganteum* is moving fast. A. Miller and S. Seligman are both out after orders in the Middle West this month.

Wm. O'Carroll, head gardener for the University of Chicago, was given publicity in the local papers last week. He is credited with growing 4 lb. lemons and asserting that a \$2,000 greenhouse would average \$3,600 yearly if planted to them.

J. O. Fleischman had a special weekend sale on *Ophelia* roses which he advertised at \$1.50 per doz. stems 24 to 30 inches. This is in line with the suggestion that retail florists give these sales instead of letting stock accumulate till the department stores get it to sell for a song.

Chrysanthemums, cyclamen and *Primula obconica* plants have appeared in the market during the past week, and though they are not yet at their best, they lend a touch of color to what has so far been a season of foliage plants. All the stock is very late this year, attributed by the growers to the fact that the hot summer caused the plants to make extra growth at the expense of bud growth.

A. B. Dick Estate and Arthur Meeker both suffered loss by fire on Oct. 16, full details of which have not been learned at this writing. The superintendent's office was damaged and greenhouses containing valuable plants are said to have been destroyed on the A. B. Dick Estate, while the heaviest loss at the Arthur Meeker place was the damage to the stock house containing several car loads of seeds. Both these places have contributed largely to the success of Chicago's flower shows and in every way helped to foster the love of the beautiful in Nature.

Outing day for the Florists' Telegraph Delivery Convention was on Thursday, Oct. 12, and was planned to be a complete relaxation from the business of the convention, but as on a similar occasion at the convention two weeks ago, a steady rain marred the pleasure. Sixteen automobiles carried those who cared to go as far as the South Shore Country Club and then over the boulevards to the West Side parks, after which lunch was served at the Bismark Gardens. The driving was the worst possible, according to John Michaelson, of E. C. Amling's. The oil of the boulevards caught the fallen leaves and cars slipped until

many cars were injured and serious accidents narrowly averted.

At Zech & Mann's, where a large shipping trade is carried on, were seen some of the best chrysanthemums of the season so far. *Comoleta* is the queen of the yellows with its deep golden color, stiff stem and good keeping qualities and comes just as Golden Glow leaves. *Unaka* has but one recommendation as grown in this vicinity—it comes early for "pink." It has a small flower and usually imperfect. The first Early Snow arrived this week and are large full blooms of clear white. Allie Zech has the opinion that the practice of stripping too much foliage from the stems of *Chrysolora* while in the bench inclines that fine variety to wilt when cut. The bare stems become hard and are not able to absorb water enough to preserve the flowers, which lessens its value for either local or shipping trade. When foliage is left on the stems remain soft and can absorb water and at this point the stems should be cut and no longer.

WASHINGTON, D. C.

The date for the annual chrysanthemum show at the Department of Agriculture is yet somewhat in doubt, but the plants are coming along in fine shape, and it may be that the show can be held the first of November as last year.

The Washington Floral Company is pushing the sale of novelty bowls and flower holders. The bowls are three or four inches in diameter. The holders are china "fish." These are sold at 35 cents each and are proving very popular.

Gude Bros. Co. have on exhibition a number of cotton plants in six-inch pots, in full bloom and attracting the attention of large numbers of school children. They contemplate sending half of them to the public schools for educational purposes.

Florists desiring to continue in business after October 31, next, must promptly renew their licenses, according to a notice just issued by the assessor of taxes, for on that date all licenses covering florist businesses in the District of Columbia will expire.

CLEVELAND

The Friedley Co. are bringing in some very fine cyclamen in seven and eight-inch pots.

H. G. Evans has left the Gasser Co. to take a position with Randolph & McClements at Pittsburgh, Pa.

The Gasser Co. are remodeling their retail store. Carl Lee, designer for the Gasser Co., is on the sick list.

The Cleveland Cut Flower Co. have moved their entire plant from Eddy road to Newton Falls, Ohio. They expect to be operating in full blast within a few weeks. Herbert Bate will take up his residence at the latter place during the next thirty days.

F. J. RIENZENTHALER.

PITTSBURGH.

Dr. Otto Jennings, curator of the Carnegie Institute museum herbarium, and Mrs. Jennings have returned from a five weeks' expedition in northwestern Ontario.

Ralph H. Pinner is having a ten days' business trip in northern Ohio. Mr. Pinner has recently added Howard Andrews of Philadelphia to his staff of landscape men for the A. W. Smith Co.

Berthold Frosch, for a number of years connected with the Bureau of Parks, has been engaged to look after the landscape features of the Tuxedo Land Company, comprising 2,000 acres in the heart of the Sewickley Heights district.

Should weather conditions continue favorable, John W. Jones expects to open his chrysanthemum show at Schenley Park, on the first Sunday of November. Foreman James Moore of the Phipps Conservatory in North Park will probably inaugurate his exhibition a week earlier, as will likewise Anthony A. Leach of "Green-lawn."

Andrew Forsyth, head gardener on the John Daub's Homewood estate, has gone to the employ of Joseph Trees, of North Highland Ave. Fabbazzi Pisquale, who has been in charge of the latter, has returned to his old position on the estate of Michael L. Benedum, succeeding Augustus William Weber, who recently resigned. Mr. Forsyth is the brother of Neil Forsyth, superintendent of "Lyndhurst," the old Thaw estate, now leased by J. J. Fisher. After spending the past year in Detroit on the estate of E. L. Ford, Roderick Fraser has returned to his old position as first assistant to David Fraser on Henry Clay Frick's Homewood estate.

The Horticultural Society of Western Pennsylvania re-opened its sessions for the season of 1916-17, and will continue to meet at the Colonial-Annes Hotel. While dahlias was the scheduled subject, no formal program was carried out, the various members talking informally of the most satisfactory growing methods adapted to this climate. Mr. Adler, a grower on the North Side, exhibited a number of blooms. There was considerable talk in regard to the coming June Show under the auspices of the Garden Club of Allegheny County in which the Horticultural Society will co-operate with the Florists' Club. The next session of the organization will be devoted to an exhibition of chrysanthemums and addresses on the culture thereof.

Raymond Lindsey of J. T. Conger's Hartwell Floral Co., Cincinnati, O., was pretty badly injured on Monday, October 9, when an auto he was driving collided with another auto.

BASKETS BASKETS BASKETS

BUY YOUR FALL SUPPLIES NOW

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Hampers and Flower Bowls

Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

PHILADELPHIA.

The Pansy Flower Shop (Keene & Carter) is now at 624 South Broad street. Their old address was 1351 Lombard street.

Charles Sim has returned all safe from his visit to the old country. He relates many thrills and exciting episodes in the course of his peaceful journey.

Jammed against a tree on the Cobb's Creek golf links last Monday by a motor lawnmower, William Larkins, 52 years old, an employee on the city's golf course, suffered compound fractures of the left leg above and below the knee, a broken shoulder and painful lacerations of the body. He was sent in an auto to the University Hospital, where he is in a critical condition. Larkins was operating the motor lawnmower on the golf links and while in a deserted section closed the clutch and went to the front of the machine to make a slight repair. He left the motor in gear, however, and when he gave the mover a slight jar the clutch slipped and the big machine started forward crushing Larkins against a tree.

George and Alfred Burton engineered a visitation party among the growers in Montgomery & Bucks Co. on the 5th inst. Among those riding in the two Burton autos were: Samuel S. Pennock, David Colfesh, Arthur Niessen, W. H. Engler, Robert Kift, Alban Harvey, J. Wm. Colfesh and Edmund Harvey. The itinerary included the Burton & Myers places at Wyndmoor, Mortensen's at Southampton, Franklin's at Yardley, Heacock's at Roeloffs, Andre's at Doylestown, Lilly's at Chalfont, the Florex Gardens at North Wales, and John Welsh Young's at Flourtown. Returning to Wyndmoor the party was entertained to a bounteous dinner at the residence of George Burton, and left for home about 8 P. M. after a very delightful day's outing.

BOSTON.

On Thursday evening, October 19, the Florists' Bowling League started their series for the season at the Arch street alleys. Scores will be recorded in our next.

The position of nursery inspector for the State Board of Agriculture is open and civil service examination of applicants will be held at the State House, Boston, and at Amherst, simultaneously, on Monday, October 23.

A party of seven jolly salesmen from the Flower Exchange, sailed in Ed. Rojean's boat to Hough's Neck last Tuesday, to fish for smelts, but so rough was the sea that they were glad to go ashore and return by the land route, it being cheaper and more comfortable to buy the smelts in Boston.

Harry Quint was tendered a banquet by his employees and friends on Oct. 5th, at the Hotel Brunswick. The occasion was the fifth anniversary of Mr. Quint's venture into the business world. The toastmaster of the evening was Dr. Harry Belin. Among the employees present were: Julius Quint, Nathan Landerman, William Goldberg and Samuel Freedman.

ST. LOUIS.

Preliminary lists are out for the Spring Flower Show of 1917 to be held at the Amory Building.

Vincent and Frank Gorly, with F. C. Weber, Jr., were in Chicago at the meeting of the Florists' Telegraph Association.

A luncheon was given Thursday afternoon, Oct. 12, by C. T. Hatfield, manager of the convention bureau of the Business Men's League, to the National Flower Show Committee. After the luncheon the committee met the florists of St. Louis and vicinity at the Coliseum. Much enthusiasm was aroused and the success of the National Flower Show of April, 1918, was foreshadowed.

NEW YORK

Walter R. Siebrecht of 114 W. 28th street is doing jury duty at present.

Importers of orchids state that cattleyas will cost ten dollars a case more next year.

Sam. Redstone, with Hitchings & Co., sailed on the S. S. St. Paul, Oct. 14, on a visit to England.

Mr. and Mrs. C. Albert Small celebrated their twenty-fifth wedding anniversary on Friday, October 13.

Sam Woodrow's landscape gardening department grows. This week he is completing a large job at Great Barrington, Mass.

George C. Siebrecht has added a flower basket department to his cut flower business and is now showing a nice line of samples.

There was a severe freeze in this section on Saturday night, Oct. 14, killing effectually all dahlias and other susceptible garden material.

Alex. Guttman is elated over the fact that ever since the early lavender pink chrysanthemum named for him started to come in September, two hundred dozen flowers have been sold at \$6.00 a dozen.

We saw a case of asparagus plumosus opened at P. J. Smith's which had come all the way from California in fine condition, seemingly as good as if locally grown and superior to the Florida stock, which in many instances sheds its foliage badly.

PERSONAL.

A. C. Boje has accepted the position of head gardener for M. J. Whittall, Worcester, Mass.

BUSINESS TROUBLES.

Lawrence, Kan.—Theodore E. Griesa, nurseryman, assets, \$21,425.47, liabilities, \$24,564.87.

CATTLEYAS

\$6.00 per dozen

Fine big flowers. We bill them to you at a special price in lots of 25 or more.

VALLEY \$6 per 100

GARDENIAS \$3—\$4 per dozen

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964—1965

EDWARD REID

WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85, 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 2860 Madison Square

WOODROW & MARKETOS

WHOLESALE

Plantsmen and Florists

37 and 39 West 28th St., NEW YORK

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

262 B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON October 19		ST. LOUIS October 9		PHILA. October 16	
Roses						
Am. Beauty, Special	20.00	to 30.00	.....	to 35.00	20.00	to 30.00
" " Fancy and Extra	15.00	to 20.00	.....	to 25.00	12.50	to 20.00
" " No. 1 and culls	3.00	to 8.00	5.00	to 10.00	5.00	to 10.00
Russell, Hadley	2.00	to 12.00	2.00	to 6.00	4.00	to 15.00
Killarney, Hillingdon, Ward, Extra	4.00	to 8.00	2.00	to 5.00	5.00	to 8.00
" " Ordinary	1.00	to 2.00	.....	.....	2.00	to 4.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 8.00	2.00	to 5.00	5.00	to 10.00
" " Ordinary	1.00	to 2.00	.....	.....	2.00	to 4.00
Ophelia, Mock, Sunburst, Euler, Extra	3.00	to 8.00	2.00	to 6.00	5.00	to 10.00
" " Ordinary	1.00	to 2.00	.....	.....	2.00	to 4.00
Carnations	1.00	to 3.00	2.00	to 3.00	1.50	to 3.00
Cattleyas	23.00	to 40.00	40.00	to 60.00	25.00	to 40.00
Dendrobium formosum	.....	to 50.00	.....	.....	50.00	to 60.00
Lilies	8.00	to 18.00	10.00	to 12.50	10.00	to 15.00
Lily of the Valley	4.00	to 5.00	.....	to 5.00	3.00	to 6.00
Snadragon	1.00	to 2.00	.....	.....	1.00	to 5.00
Gladioli	1.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Chrysanthemums	10.00	to 25.00	2.00	to 3.00	6.00	to 25.00
Violets	.35	to .50	.20	to .40	.15	to .50
Gardenias	.....	to 50.00	.....	.....	15.00	to 25.00
Adiantum	.....	to 1.00	.....	to 1.50	.....	to 1.00
Smilax	19.00	to 20.00	15.00	to 18.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	20.00	to 35.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER OF

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

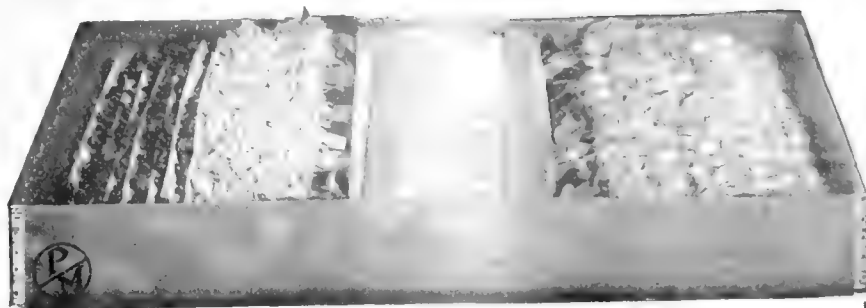
Flower Market Reports

Indications this week are **BOSTON** for a falling market as, although the sales are excellent, the amount of flowers coming in daily is rapidly increasing, this being most noticeable in the chrysanthemums, as a matter of course. The value of the chrysanthemum is affected accordingly and for a specified price a much superior flower is demanded as compared with the situation last week. Carnations are better and there are more of them than at time of last report, but they maintain the price without effort, so far. Cattleyas are arriving freely, but are not much sought. Violets are slow thus far. Cornflowers of fine quality are seen. Lilies are somewhat on the scarce side and many of the flowers offered are inferior. The first severe frost came last Saturday, closing out most of the outdoor material. Roses are good and enjoy a steady demand.

The amount of business **CHICAGO** being done is still limited by the amount of stock coming, which, with the exception of roses, is none too large. Chrysanthemums are making a great change in the appearance of the wholesale houses, where the empty tables have long had a depressing effect. The season for the big flowers is only well begun and after orders are taken care of not many remain for the late buyers. The stock generally is good. Some of the extreme sizes are arriving this week for the first and bring fancy prices. There is no such thing as fancy carnations yet, but the medium ones are increasing in number and the very short are not quite so much in evidence. Roses overbalance in quantity the rest of the stock and concessions have to be made to induce buyers to take large lots. Lilies are still very scarce; American Beauties are coming nicely now and the quality is excellent. Violets are starting out in the same way as last year and the probable causes make interesting discussion without changing the facts. The demand for them is gone. Home-grown doubles and fine singles sell for \$1.00 per 100 in limited quantity, but the eastern stock brings a small fraction of that price if sold at all.

The market is rather **CINCINNATI** crowded and low prices are the rule. The demand for stock is hardly what it was a fortnight ago. The chrysanthemum cut is now heavy and if the present rate of increase in cut continues the market will be crowded with them before another fortnight is over. Roses are very plentiful and excellent as to quality. Carnations are in a fair supply but more might be used if they were available. Choice lily of the valley and orchids may be had. A few sweet peas are coming in. Other offerings include some excellent lilies and violets.

The market has received a slight setback during the past **CLEVELAND** week as we had a couple of light



ROSE SPECIALS

Opportunities for live business men. Some splendid values for week of October 23rd.

ROSE SPECIAL No. 1—In lots of 200 or over, long stems, our selection as to color and variety, at \$4 per 100.

ROSE SPECIAL No. 2—In lots of 250 or over, our selection, medium stems, at \$2 per 100.

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	CINCINNATI October 16		CHICAGO October 9		BUFFALO October 16		PITTSBURG October 16	
Roses								
Am. Beauty, Special.....	25.00	to 35.00	30.00	to 40.00	20.00	to 25.00	25.00	to 35.00
" " Fancy and Extra.....	15.00	to 20.00	20.00	to 25.00	12.00	to 15.00	15.00	to 20.00
" " No. 1 and culls.....	5.00	to 10.00	8.00	to 12.00	4.00	to 10.00	8.00	to 12.00
Russell, Hadley.....	6.00	to 12.00	3.00	to 25.00	8.00	to 10.00	8.00	to 12.00
Killarney, Hillingdon, Ward, Extra	6.00	to 8.00	6.00	to 10.00	6.00	to 8.00	8.00	to 12.00
Ord.	3.00	to 5.00	3.00	to 4.00	3.00	to 6.00	4.00	to 6.00
Arenburg, Radiance, Taft, Key, Ex.	6.00	to 8.00	8.00	to 12.00	6.00	to 8.00	8.00	to 12.00
Ord.	3.00	to 5.00	4.00	to 6.00	3.00	to 4.00	4.00	to 6.00
Ophelia, Mock, Sunburst, Euler, Ex	6.00	to 10.00	6.00	to 10.00	6.00	to 8.00	8.00	to 12.00
Ord.	3.00	to 5.00	3.00	to 5.00	3.00	to 6.00	.....	to 6.00
Carnations	8.00	to 4.00	2.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Cattleyas	60.00	to 75.00	60.00	to 75.00	50.00	to 60.00	60.00	to 70.00
Dendrobium formosum.....	.....	.....	.....	.....	.....	.....	.....	.....
Lilies	12.00	to 15.00	12.00	to 15.00	8.00	to 12.00	.....	to 12.00
Lily of the Valley	6.00	to 7.00	3.00	to 5.00	5.00	to 6.00	6.00	to 8.00
Snappedragon	4.00	to 6.00	.....	.....	3.00	to 6.00	3.00	to 6.00
Gladioli.....	.....	.....	.....	.....	2.00	to 4.00	4.00	to 5.00
Chrysanthemums	15.00	to 25.00	25.00	to 35.00	10.00	to 30.00	20.00	to 30.00
Violets	30	to 50	.....	.....	25	to 50	40	to 60
Gardenias.....	.....	.....	.....	.....	20.00	to 25.00	.....	.....
Adiantum.....	.....	1.00	.75	to 1.00	1.00	to 1.25	1.00	to 1.25
Smilax	15.00	to 20.00	20.00	to 25.00	15.00	to 20.00	12.50	to 15.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 35.00	25.00	to 50.00	.....	to 35.00	30.00	to 50.00

frosts which put most of the dahlias and cosmos out of commission. Chrysanthemums are still very scarce. The Cut Flower Co. has been receiving shipments of chrysanthemums from California which are very fair, but of course do not compare with the local product, after being on the road five days.

NEW YORK Chrysanthemums are overwhelmingly in domination of the flower market now. They average better, in our opinion, than ever before, in all the qualities of size, color and development of flowers, as well as in stem and foliage and many of the big crates in which they come to market, when opened, disclose careful packing and flowers in splendid condition. Of course, "there are others," but it is manifest that greater care than formerly is being taken in the matter of packing for market, not alone with chrysanthemums but with flower shipments generally. Cattleyas have in a

few days swung from the scarce column into the overstocked class, and prices have descended rapidly towards the foot of the ladder. Dahlias still linger, also gladioli, where the growers have taken pains to protect their plants on frosty nights. Violets are improving in quality but, as usual at this date, they are practically in the discard and sell very poorly. Carnations improve daily and have sold fairly well. Roses are very fine and there are plenty of them, all varieties. Considering the situation they are holding up remarkably well in demand and price and it looks as though we were now entering upon a season in which the rose will hold a very strong position and the grower of good stock will come in for good returns.

Stock is fairly **PHILADELPHIA** plentiful. Roses are increasing and quality improving. Beauties are

(Continued on page 552)

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 145 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street
Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

108 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE { 608 } MADISON SQ., NEW YORK
609

**JOHN YOUNG & CO.
WHOLESALE FLORISTS**

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7863 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothea, Palmetto, Cycas, both fresh
cut and prepared.

Laural, Hemlock, all Decorative Evergreens.

Est. 1903 Tel. 1903 Mad. St. 119 W. 28 St., New York

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

28 Willoughby St., Brooklyn, N. Y

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.
Wholesale Commission
READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE { 2281 } FARRAGUT 131 West 28th St., NEW YORK CITY
3089

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS
GARDENIAS, DAISIES, ROSES, CARNATIONS
ON HAND

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 2483 Farragut

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones { 1664 } Madison Square
1665

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending Oct. 14 1916		First Half of Week beginning Oct. 16 1916	
American Beauty, Special	15.00	to 30.00	20.00	to 30.00
" " Fancy and Extra	10.00	to 15.00	10.00	to 15.00
" " No. 1 and culls.	3.00	to 8.00	2.00	to 8.00
Russell, Hadley	8.00	to 10.00	2.00	to 10.00
Killarney, Hildington, Ward, Extra	3.00	to 8.00	3.00	to 8.00
" " Ordinary .....	.75	to 2.00	.50	to 2.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 8.00	4.00	to 8.00
" " Ordinary .....	.75	to 2.00	.50	to 2.00
Ophelia, Mock, Sunburst, Euler, Extra	4.00	to 10.00	4.00	to 10.00
" " Ordinary .....	.75	to 2.00	.50	to 3.00
Carnations	1.00	to 3.00	1.00	to 3.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—5532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for doing
our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK

Phones 2036, 2037, 558 Farragut

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797-798-799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality.

114 West 28th Street
NEW YORK

**HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS**

55-57 West 26th Street

Telephones, 13—8510 Madison Square

MAURICE L. GLASS, Treasurer

Consignments Solicited

Flower Market Reports

(Continued from page 551)

good and selling well. Russells selling about the best of any. Killarneys are doing fairly well but not so good as the others. Ophelia is one of the leaders. Carnations are showing better stems and there are not too many of them. Chrysanthemums are more plentiful, Chrysolora, Pacific Supreme and Golden Queen being in the van. Of dahlias there are still a few, also some gladioli and asters where they have been protected from frost. There is a lot of cosmos, long and short. Cattleyas good and plentiful and prices are lower. Dendrobiums very scarce. Lilies are also a little scarce, the growers aiming to have only a few at chrysanthemum time. Lily of the valley is good, more plentiful than it was.

The market notwithstanding the cool spell is crowded. Roses are plentiful, good stock finding a ready sale. The same may be said of carnations and they are also improving in quality. Chrysanthemums have started to come in and will be greatly on the increase in about a week. Dahlias are about done, the frost having nipped them. Violets are in but the blooms are small and not in demand. Cosmos are in in profusion. Greens of all kinds are in demand.

Some few exceptionally fine carnations have met with ready sale. There is a heavy supply of both chrysanthemums and roses. While the colored roses are plentiful, good white roses are hard to obtain. Violets are more plentiful but their sale is retarded by the warm weather. Lily of the valley is more plentiful. There is a very heavy supply of cosmos and a great deal of this finds its way to the trash heap. Cattleyas are not quite so plentiful as they have been. Some exceptionally fine orchid pink and white pyrethrum can be had. Yellow daisies and indoor sweet peas are the latest offerings.

Visitors' Register

St. Louis—Julius Dilloff, New York.
Boston—Gus. X. Amrhy, supt. parks, New Haven, Conn.; Eugene Weiss, New York; Sam. Burns repr. W. H. Lutton Co., Jersey City, N. J.; John Dunbar, supt. parks, Rochester, N. Y.

Cincinnati—J. F. Heidegers, Aurora, Ind.; Fred Rupp, Laurenceburg, Ind.; R. MacLellan, Chicago; M. A. Lezander, Chicago; Julius Dilloff, New York; F. W. Ritter, Dayton, O.; A. G. Guthman, Atlanta, Ga.

Philadelphia—Wm. Graham (Fleischman's) Chicago, Ills.; A. Herrington, Madison, N. J.; W. C. Langbridge of Jerome B. Rice & Co., Cambridge, N. Y.; Geo. Heck, Wyomissing, Pa.; J. Niednagel, Evansville, Ind.

Washington, D. C.—Wm. Rehder, Wilmington, N. C.; Hugo Jahn, Brooklyn, N. Y.; Xavier E. E. Schmitt, Fairmount Park, Phila.; S. T. Pletcher,

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2693

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Oct. 14 1916		First Half of Week beginning Oct. 16 1916	
Cattleyas.....	25.00	to 35.00	20.00	to 35.00
Dendrobium formosum.....	.....	to 50.00	.....	to 50.00
Lilies.....	6.00	to 10.00	5.00	to 10.00
Lily of the Valley.....	3.00	to 5.00	3.00	to 5.00
Snagdragon.....	1.00	to 2.00	1.00	to 2.00
Gladioli.....	.50	to 4.00	.50	to 4.00
Chrysanthemums.....	12.00	to 50.00	12.00	to 50.00
Violets.....	.20	to .50	.20	to .50
Gardenias.....	25.00	to 40.00	25.00	to 40.00
Adiantum.....	.25	to .50	.25	to .50
Smilax.....	8.00	to 15.00	8.00	to 15.00
Asparagus Plumosus, & Spreng. (100 bunches).....	10.00	to 25.00	10.00	to 25.00

VIOLET GROWERS

Before making your shipping arrangements for the coming season please correspond with me.

I HANDLE VIOLETS ONLY

and give my entire time and attention to the interests of my violet growers.

CLARENCE SLINN

Write Now

123 W. 28th Street, NEW YORK

ORCHIDS - - GARDENIAS

HEADQUARTERS for the entire output of the

BEECHWOOD HEIGHTS NURSERIES, of Bound Brook, N. J.

PAUL MECONI—Wholesale Florist—NEW YORK

Telephone Nos. 3864 and 8364 Madison Square

57 WEST 26th STREET

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square
BOSTON, MASS.

Telephone 2618-2617-2616, Main.

William Stuart Allen Co.

Commission Merchants in

CUT FLOWERS

53 West 28th Street, NEW YORK

Telephone—356 Madison Square.

Zanesville, Ohio; B. J. Dudley, Parkersburg, W. Va.; Mr. and Mrs. H. Bayersdorfer and S. H. Bayersdorfer, Phila., and Alton R. Newton, Norfolk, Va.

Chicago—Chicago visitors this week include about sixty who were attending the Florists' Telegraph Delivery Convention. There were also recorded: L. G. Lindsay, Minneapolis, Minn.; A. B. Katzwinkel, Restland Floral Co., Mendota, Ill.; H. Philpott, Winnipeg, Man.; Roger Peterson, Cincinnati, O.; Jas. Bancroft, Cedar Falls, Iowa.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK
Telephone, Madison Square 5298

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of

Good Stock Solicited

PERCY W. RICHTER, Mgr., NEW YORK
111 W. 28th Street

HERMAN WEISS

Wholesale Florist

Experienced, Progressive and can handle shipments of growers' product satisfactorily.

106 West 28th St., NEW YORK
Tel. Farragut 3066.

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street
167 & 3058 Farragut NEW YORK

Established 1888

Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists

110 West 28th St., New York

We Solicit Consignments of New England Grown Novelties.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

ASTILBES

Mt. Desert Nurseries, Bar Harbor, Me.
New Hybrids for Forcing.
For page see List of Advertisers.

AUCTION SALES

The MacNiff Horticultural Co.,
New York City

Bulbs and Boxwood.
For page see List of Advertisers.

Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.

Johnson & Millang, Inc., New York City.
Plants, Bulbs, Etc., at Auction.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price list.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

Mrs. J. A. Peterson (New), 2 1/4 in. pots, \$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.

"King Ideal" Boiler.
For page see List of Advertisers.

Hitchings & Co., New York City.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

August Rolker & Sons, New York City.
For page see List of Advertisers.

BOX TREES—Standards, Pyramids and Bush. Price list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

BULBS AND TUBERS

Hogewoning & Sons, New York City, and Rynsburg, Holland.
Narcissus Paper White Grandiflora.

J. M. Thorburn & Co., New York City.
Hyacinth, Narcissus and Freesia Refracta Alba Bulbs.
For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
French and Dutch Bulbs.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
French, Japan, Holland and Cold Storage Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Barnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

The MacNiff Horticultural Co.,
Holland Grown Bulbs.
New York City.
For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.
For page see List of Advertisers.

Fottler, Flake, Rawson Co., Boston, Mass.

Mr. B. Progressive, Florist,
Everywhere, U. S. A.

Dear Sir: It will be a decided advantage as regards prices and quality to place your order with us.

Soliciting your order through this ad cuts down the overhead selling expenses and you positively get lower prices and better quality. Our terms are liberal and are a guarantee that you get a square deal, all bulbs guaranteed true to name or money refunded.

Write us and upon request we will mail you our booklet giving prices f. o. b. New York or Chicago, and we also cheerfully furnish you with any information that may be desired. Those of our friends who will mail us a list of their requirements will find it has paid them to do so.

Awaiting to hear from you at your pleasure, we remain,
Yours very truly,
Westerbeek & Klyn,
Sassenheim, Holland.

Write to WESTERBEEK & KLYNN, 14 STONE ST., NEW YORK, N. Y.

BULBS AND TUBERS—Continued
C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
Pompon Chrysanthemums.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

CINEBARIAS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

2 1/4-inch pots

Half dwarf, selected strains, best colors: \$3.50 per 100, \$30.00 per 1000; 3-inch, \$5.00 per 100, \$40.00 per 1000.

Write today for our Plant Bulletin and Bulb List, containing everything you need.
S. S. PENNOCK-MEEHAN CO.,
1608-1620 Ludlow St., Philadelphia, Pa.

DAHLIAS

John P. Rooney, New Bedford, Mass.
Peony Dahlia Mrs. Frederick Grinnell.

ORDERS BOOKED ANYTIME

For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

DRACAENA CANES

Collin Campbell, New York City.

McHutchison & Co., New York City.
For page see List of Advertisers.

For List of Advertisers See Page 531

FERNS

A. M. Davenport, Watertown, Mass.
Small Ferns for Dist.
For page see List of Advertisers.

R. Vincent, Jr., & Sons Co., White Marsh,
Maryland.
Boston Ferns.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

Joseph Heacock Co., Wyndham, Pa.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.

FLORISTS' PLANT STOCK

Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums: S. A. Nutt, 2 1/4 in.; also
rooted cuttings. First class stock. Write
for prices. FRANK LEITH & SON,
Haverhill, Mass.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

Glass 6x8, 8x10, 10x12, 10x14, \$1.65
per box. Other sizes at factory prices.
C. N. ROBINSON & BRO., Dept. 29,
Baltimore, Md.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset,
Boston.
Pecy Cypress.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

John C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION—Con.

Hitchings & Co., New York City.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Boston, Mass.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit,
Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

Pallsades Nurseries, Inc., Sparkill, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co.,
Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset, Mass.

HOSE

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

HYDRANGEAS

Anglin & Walsh Co., Williamsbridge, N. Y.
Otaksa and Avalauche.
For page see List of Advertisers.

INSECTICIDES

Hammond's Paint & Slug Shot Works,
Beacon, N. Y.
Hammond's Thrip Juice No. 2.
For page see List of Advertisers.

Aphine Manufacturing Co., Madison, N. J.
Aphine.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

B. G. Pratt Co., New York City.
Whys and Wherefores of Fall Spraying.

IRIS

John Lewis Childs, Flowerfield, N. Y.
Japan Iris.
For page see List of Advertisers.

IVY

A. L. Miller, Jamaica, N. Y.
Field Grown.
For page see List of Advertisers.

LILY BULBS

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Lilium Harriall Bulbs.
For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
Lilium Formosum Bulbs.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Hardy Lilies.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hohmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.,
Hartboro, Pa.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSEBY STOCK

R. & J. Farquhar & Co., Boston, Mass.
Trees.
For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Cedar Hill Nurseries, Glen Head, L. I., N. Y.
Two Magnificent New Shubs.
For page see List of Advertisers.

Colin Campbell, New York City.

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

PALMS**SINGLE PLANTS**

Belmoreana, 4 -inch.....\$4.00 per 100
" 5 -inch..... 75c. to \$1.00 each
" 6 -inch.....\$1.25 to \$1.50 each
Forsteriana, 2½ -inch.....\$20.00 per 100
" 4 -inch.....\$40.00 to \$45.00 per 100
" 5 -inch.....\$1.00 to \$1.25 each
" 6 -inch.....\$1.25 to \$2.00 each
" 7 -inch.....\$1.50 to \$2.50 each

Made up plants. Prices on application.

PHOENIX ROEBELENI

4 -inch\$6.00 per 100
5 -inch\$1.25 to \$1.50 each
6 -inch\$2.00 to \$2.50 each
7 -inch\$2.50 to \$3.50 each

Write today for our Plant Bulletin and Bulb List, containing everything you need.

S. S. PENNOCK-MEEHAN CO.,
1608-1620 Ludlow St., Philadelphia, Pa.

Joseph Heacock Co., Wyncote, Pa.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.

PHLOX

150,000 field grown Phlox in 12 leading varieties; all colors; true to name. \$3.50 per 100, \$30.00 per 1000. THE NILES NURSERY CO., Niles, Mich.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

Richmond Cedar Works, Richmond, Va.
Cedar Plant Tubs.
For page see List of Advertisers.

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

POINSETTIAS

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

ROSES—Continued

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Hardy Roses, American Grown.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

ROSE STAKES

The Carnation Support Co.,
Connersville, Ind.
For page see List of Advertisers.

SASH

Standard Hot Bed Sash with cross bar, 80c. each; lots of 25 and over, 75c. each. Satisfaction guaranteed or money refunded. Glass 6 x 8, 8 x 10, 10 x 12 or 10 x 14. \$1.85 per box of 50 sq. ft. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Boigliano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Gigantic Cyclamen.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
Gold Medal Cyclamen Seed.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Seeds, Selected Strains.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.
Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
For page see List of Advertisers.

Roman J. Irwin, New York City.
New Crop Florists' Seeds.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
Seeds for the Florist.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

SWEET PEA SEED

Arthur T. Boddington Co., New York City.
The Sensational Pink Sweet Pea
Yarrowa.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet Peas.
For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.
The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICOIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VIOLETS

Clarence Slinn, 123 West 28th St., New York City.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 3 Winthrop Sq.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 568-570 Washing-
For page see List of Advertisers.

For List of Advertisers See Page 531

WHOLESALE FLORISTS Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 264-266
Randolph St.
For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManna, 106 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
For page see List of Advertisers.

Hentz & Nash, 55 and 57 W. 28th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 28th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Treadly & Schenck, 436 6th Ave., between
26th and 27th Sts.
For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

Woodrow & Marketos, 37 and 39 W. 28th St.
For page see List of Advertisers.

Biedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 53 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111-W. 28th St.
For page see List of Advertisers.

Guttman & Reynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunther Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

George W. Crawbuck Co., 57 West 28th St.
For page see List of Advertisers.

William Stuart Allen Co., 53 West 28th St.
For page see List of Advertisers.

Clarence Slinn, 123 West 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Beld, 1619-21 Ranstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
For page see List of Advertisers.

WHOLESALE FLORISTS Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 21 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.

New Offers In This Issue

BULBS

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

CATTLEYAS

Leo Niessen Co., Philadelphia, Pa.
For page see List of Advertisers.

CHRYSANthemum—ALEX GUTT- MAN

Guttman & Raynor, Inc., New York City.
Or Frank Dinda, Farmingdale, N. Y.
For page see List of Advertisers.

FORMOSUM LILY BULBS

Yokohama Nursery Co., New York City.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

JAPAN, FRENCH AND HOLLAND BULBS

Ralph M. Ward & Co., New York City.
For page see List of Advertisers.

LILIUM GIGANTEUM.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

ORCHIDS

Francisco Delgado O. Bogota, Colombia.
For page see List of Advertisers.

ORCHIDS, GARDENIAS

Paul Meconi, 57 West 28th St., New York
City.
For page see List of Advertisers.

ROSE SPECIALS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

THE NUT-GROWER

The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

WANTS, FOR SALE, ETC.

Advertisements in this column
one cent a word. Initials count
as words. Cash with order. All
correspondence addressed "Care
HORTICULTURE" should be sent
to 117 Summer St., Boston.

HELP WANTED

WANTED—An all around florist on a
commercial place. Sober and reliable.
References required. GEO. E. FELCH,
Ayer, Mass.

SITUATIONS WANTED

WANTED -- Greenhouse Foreman Posi-
tion can furnish best of references. Ad-
dress J. W. care HORTICULTURE
NEW OFFERS

Gardener with first-class references, 36
years old, married, no children. Experi-
ence in and outdoors on well-known private
places. Address "R. S.," care HORTICUL-
TURE, Boston.

SITUATION WANTED—A chance for ad-
vancement by an American Storeman with
nearly seven years' experience in design-
ing and decorating with a leading florist
near Boston. One year's experience in
buying from Boston wholesalers. In or
around Boston preferred. Sober and reli-
able. Best of references. Would like a
change middle or last of November. "G. H.,"
care of HORTICULTURE.

TREES, SHRUBS, VINES and HERBACEOUS PERENNIALS

By JOHN KIRKEGAARD

Formerly Assistant to Director of the Royal
Botanical Gardens, Copenhagen, Denmark.
Latterly Twenty Years in American For-
estry and Botanical Work.

Assisted by DR. H. T. FERNALD,

Professor of Entomology Massachusetts
Agricultural College and Entomologist,
Massachusetts Agricultural Experiment
Station.

and PROF. E. A. WHITE,

Professor of Floriculture, New York State
College of Agriculture at Cornell Univer-
sity.

A Great Book A Beautiful Book
A Comprehensive Book

A Practical Book By Practical Men
There Is No Other Book Like It

410 Pages. Planting Plans. Tabular De-
scription and Classification of Species. 59
Full-Page Illustrations in Tint. Authorita-
tive Articles on Many Subjects.

New Edition

BEAUTIFULLY BOUND IN CLOTH

Price only \$2.50 net. Mailing
Price, \$2.71. Money-Back
Guarantee

Order it from HORTICULTURE
147 Summer St., Boston

In writing to Advertisers kindly mention Horticulture

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**KING CONSTRUCTION COMPANY, North Tonawanda, N. Y.****GREENHOUSES****We Claim Maximum Strength and Minimum Shadow. Investigate**

BOSTON OFFICE: 113 State St., Boston, Mass.

PHILADELPHIA OFFICE: Harrison Building, 15th and Market Sts., Philadelphia, Pa.

Obituary

H. J. Kenney.

Hugh James Kenney, a dealer in florists' supplies, wire designs, etc., in Brooklyn, died on Sunday, Oct. 8, at his home, 1,801 Dean street, Brooklyn, N. Y., aged 63 years. Mr. Kenney was born in Richmond, Va.

Richard Scommodau.

Richard Scommodau, the pioneer florist of 8th avenue, New York City, died at his home, 328 West 34th street, on October 9th, of heart disease. Mr. Scommodau was born in Germany seventy-two years ago and came to this country at the age of eighteen. He was in the florist business on 8th avenue since 1859. He is survived by his wife, daughter and two sons, Alexander, who will continue the business and Herman, who is employed by A. L. Young & Co.

A. C. Oelschig.

August Carl Oelschig, 68 years old, founder and senior member of the A. C. Oelschig & Sons' Floral Company, died on Thursday, Oct. 12, at his home in Savannah, Ga., after an illness lasting about 18 months.

Mr. Oelschig was born in the kingdom of Saxony, Germany, November 27, 1848, and lived there till 1874, when he came to America. On arriving in the United States he secured employment with Gabriel Marc. in Woodside, L. I., N. Y. In 1881 he went to Savannah to grow rose plants for the northern trade, which he continued for a number of years, finally venturing into the retail business, adding in later years the wholesale growing of rubber plants, which he continued with the aid of his sons until his death. He was also the introducer of the wild smilax, palm leaves, southern palms, and pine tops for decorative purposes.

During his many years' residence in Savannah Mr. Oelschig was regarded as one of the leading factors in German social and benevolent activities. He has been for many years a member of the S. A. F. and served several terms as state vice-president. His genial disposition and smile for everyone endeared him to all. His funeral was largely attended and numerous

floral tributes marked his last resting place.

He is survived by a widow, two sons and four daughters. The business will be continued under the management of his sons.

GREENHOUSES BUILDING OR CON- TEMPLATED.

Westville, Ct.—Joseph J. Sokol, one house.

Webster, Mass.—Webster Floral Co., house 29 x 50.

Clifton, Va.—O. C. Ports, Wilson Creek, one house.

Felchville, Vt.—H. C. Hawkins, addition, completed.

Wallingford, Ct.—Rowden & Mitchell, house 40 x 135.

Memphis, Ten.—Overton Park, Moninger house 50 x 200.

Worcester, Mass.—Alfred Gendron, Clover Hill, one house.

South Natick, Mass.—Max Haendler, Pleasant street, one house.

Ogden, Utah—Weber Floral Co., addition 36 x 100, completed.

Elmhurst, N. Y.—Geo. H. Beckman, four houses, each 25 x 125.

New Haven, Ct.—S. B. Griffin, 185 Mill street, HITCHINGS house.

White Horse, N. J.—Edward Johnson, White Horse avenue, one house.

Laurel, Del.—L. M. Smith Co., house 22 x 58, house 12 x 120, house 20 x 36.

Newport, R. I.—T. Suffern Tailor, Ruggles avenue, additions and alterations.

Fond du Lac, Wis.—Haentze Company, Linden street, four houses in the spring.

Sawtell, Cal.—Armacost Floral Gardens, South 15th street, two houses, each 30 x 207.

Buffalo, N. Y.—R. C. Avery, 1172 Ridge road, rebuilding. Conrad Forbach, Pine Hill and Genesee street, rebuilding.

PATENTS GRANTED.

1,200,459 Flower-Vase, Frederick A. Bode, San Diego, Cal.

1,209,537. Machine for Cutting and Chopping Plants and Vines. William E. Hannaford, Reedley and Bertha M. Pickett, executrix, Fresno, Cal.

1,500,967. Weed-Destroyer. Henry Nagel, Ritzville, Wash.



NON-KINK WOVEN HOSE

In any length (one piece) with couplings, 14c. per foot. Unequaled at the price. Remnants, shorter than 50 feet, 10c. per foot, with couplings.

HOSE VALVE—70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.



METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

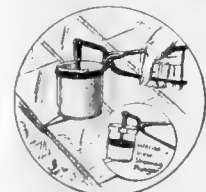
When writing to advertisers kindly mention **HORTICULTURE**.



DREER'S

Florist Specialties, New Brand. New Style. Hose "RIVERTON." Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST
 1/4-inch, per ft., 15 c.
 Reel of 500 ft., " 14 1/2 c.
 2 Reels, 1000 ft., " 14 c.
 3/4-inch, " 13 1/2 c.
 Reels, 500 ft., " 12 1/2 c.
 Couplings furnished
 HENRY A. DREER,
 714 Chestnut St.,
 PHILADELPHIA, PA.



Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

Seal-tight liquid putty at \$1.25 per gallon.
METROPOLITAN MATERIAL CO.
 1392-1414 Metropolitan Ave., Brooklyn, N. Y.

STANDARD FLOWER

POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

25th & M Sts., Washington, D. C.

FOLEY MATERIALS

ARE THE BEST FOR
Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, - - - - - CHICAGO, ILL.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

KROESCHELL BOILER

SEND FOR CATALOGUE



KROESCHELL BROS. CO.
406 W. Erie St. Chicago, Ill.



EVERYTHING FOR THE GREENHOUSE
John C. Moninger Company

CHICAGO NEW YORK
922 Blackhawk St. 812 Marbridge Bldg.
CINCINNATI, 2314 Union Central Bldg.

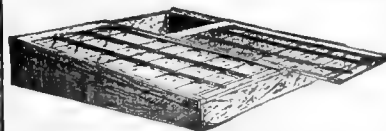
MASTICA



For Greenhouse
Glazing
USE IT NOW

F. O. PIERCE CO.
12W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



HOTBED SASH at 75c. each

Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.

Double Light Sash up to \$4.00.

We carry a large stock of all sizes.
Write us for estimate.

S. JACOBS & SONS

1359-1395 Flushing Avenue BROOKLYN, N. Y.

GET OUR CATALOGUE

on Ventilating Apparatus and Greenhouse Fittings

ADVANCE CO., RICHMOND, IND.

THE RIGHT WAY

Gives Us The Right Of Way



Every Metropolitan greenhouse is planned with an eye to results—successful crops.

Our cares do not cease with the mere mechanical part of the work. And, while we no doubt owe a great deal of our success to the high grade character of our labors, still we base our claims for your consideration, upon our ability to erect the right kind of a greenhouse in the right manner, at the right price.

PUT YOUR GREENHOUSE PROBLEMS UP TO US

We go anywhere in the U. S.
to submit plans and prices.

METROPOLITAN MATERIAL CO.

Patented Greenhouses

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

GLASS

**GREENHOUSE MATERIAL
HOT-BED SASHES**

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

PATENTS

Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms.
Address,

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

Dror's Peerless Glazing Points

For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.

Samples free.

HENRY A. DROR,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2

Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

THE FLORISTS' HAIL ASSOCIATION

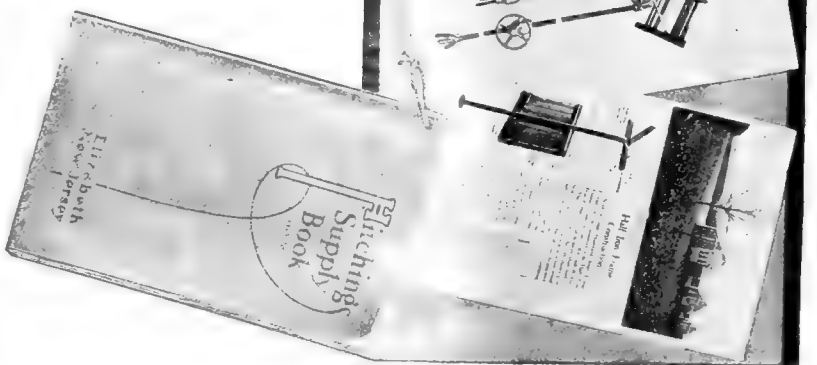
Is a mutual organization, insuring greenhouse glass against hail. Both commercial and private establishments are accepted. For particulars, address

John G. Esler, Sec., Saddle River, N. J.
Insurance New.

How the Supply Book Will Help You On Your Heating Problems

WE might "suppose" almost endlessly the heating problems that the Supply Book will make solving easy. That is, if we had room to. But we haven't. So we'll say what we've got to say briefly and pointedly.

Hitchings Supply Book is a short cut to buying what you want, and getting it in the shortest time you want it. It's your sure insurance against having to fuss and fume every time you strike a knotty heating problem. Hitchings Supply Book list describes and illustrates hundreds of fittings. There are now fittings which have never yet even been advertised. Fittings that we have made to solve special problems. Fittings that will in a set cases exactly fill your needs. No space is given up to long winded lorn howling. The whole book is devoted exclusively to **facts and figures.**



Of course, now and then, you may stack up such an unusually unusual heating problem. That even the Supply Book won't point out the solution. It is those unusually unusual heating problems that we want you to put right up to us. We have a corps of heating experts that we'll set right at work on them. Most of them have literally "grown up" with Hitchings Company. All of them know heating from way back. To cope with the unusually unusual is quite the usual thing with them. In fact it's their job. About the Supply Books, we are not going to send them out bit or miss. They cost too much for that. But we want every grover to have one. So just write and say that you want one, and it will come first mail.

Hitchings and Company

NEW YORK
1170 Broadway

BOSTON
49 Federal Street

PHILADELPHIA
40 S. 15th Street

General Offices and Factory
Elizabeth, N. J.

Vol. XXIV
No. 18
OCT. 28
1916

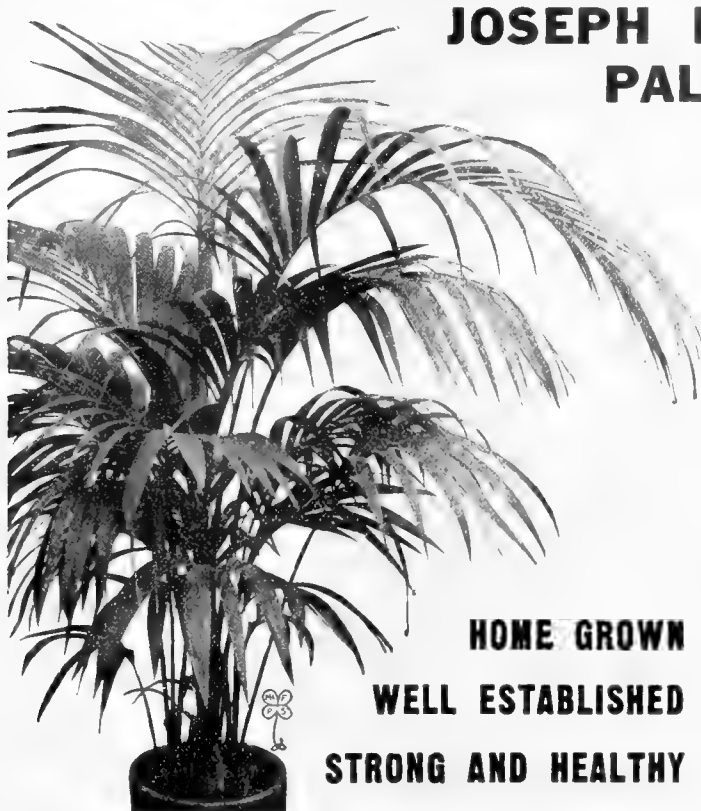
HORTICULTURE



Taxus cuspidata

On the Bayard Thayer Estate, Lancaster, Mass.

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription, \$1.00



**HOME GROWN
WELL ESTABLISHED
STRONG AND HEALTHY**

JOSEPH HEACOCK COMPANY'S PALMS AND FERNS

CIBOTIUM SCHIEDEL.

Each
9-in. tubs, 5 ft. spread..... \$5.00

KENTIA BELMOREANA.

Leaves	In. high	Each	Per doz.
2 1/2-in. pot.....4	8-10.....		\$ 1.50
3-in. pot.....5	12.....		2.50
4-in. pot.....5-6	15.....	\$.45	5.00
5-in. pot.....6-7	18-20.....	.75	9.00
6-in. pot.....6-7	22-24.....	1.00	12.00
6-in. pot.....6-7	26-28.....	1.50	18.00
6-in. pot.....6-7	30.....	2.00	24.00
7-in. cedar tub.....6-7	34-36.....	3.00	36.00
7-in. cedar tub.....6-7	38-40.....	4.00	48.00
9-in. cedar tub.....6-7	40-42.....	5.00	60.00
9-in. cedar tub.....6-7	42-48.....	6.00	

KENTIA FORSTERIANA.

Leaves	In. high	Each	Per doz.
6-in. pot.....5-6	24.....	\$1.00	\$12.00
6-in. pot.....5-6	30-32.....	1.50	18.00

KENTIA FORSTERIANA, Made-Up.

	In. high	Each
7-in. cedar tub, 4 plants in tub.....	30-36.....	\$ 3.00
7-in. cedar tub, 4 plants in tub.....	38-40.....	4.00
9-in. cedar tub, 4 plants in tub.....	40-42.....	5.00
9-in. cedar tub, 4 plants in tub.....	42-48.....	6.00
	Ft. high	
9-in. cedar tub, 4 plants in tub.....	4-4 1/2.....	7.50
12-in. cedar tub, 4 plants in tub.....	6-7.....	18.00
12-in. cedar tub, 5 plants in tub.....	7-8.....	22.00

JOSEPH HEACOCK CO.,

Railway Station
Jenkintown

WYNCOTE, PA.

BULBS FOR SALE

Von Sion, Single Nose.....	100	1000
Golden Spur, Single Nose.....	\$1.10	\$9.00
Emperor, Extra large Bulbs.....	1.10	9.00
Poeticus Ornatus, Single Nose.....	1.50	12.00
Poeticus Ornatus, Double Nose.....	.40	3.00
Grand Soliel d'Or, Yellow Paper White.....	.60	4.50
Freesia Purity.....	1.25	10.00
Single Late Tulip Gesneriana Lutea.....	.75	6.00
Fairy Queen, Heliotrope color with Yellow.....	.75	6.50
Single Superfine Mixed.....	.90	8.00
Spirea Queen Alexandra.....	.60	4.50
	6.00	

Big Surplus of 225,000 Bulbs Coming. Send for Our List of Fall Bulbs and
Spring List of 150 Varieties of Gladiolus.

THOMAS COGGER

229 Laurel Street - - - MELROSE, MASS.

American Representative for C. KEUR & SONS, HILLEGOM, HOLLAND.

LILY BULBS

RALPH M. WARD & CO.
71 MURRAY ST., NEW YORK

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. - - - BOSTON

Telephone Main 54.

CHRYSANTHEMUM ALEX. GUTTMAN

The best Early Lavender-Pink in the
Market. Blooms have been selling for \$6.00
per dozen since middle of September. Stock
Plants, 75c. each, \$7.50 per doz.

GUTTMAN & RAYNOR, INC.

Wholesale Florists

101 West 28th St., New York, or FRANK
DINDA, Farmingdale, N. Y.

A.N. Pierson, Inc.

CROMWELL, CONN.

Bedding Plants and Roses

CARNATIONS

Field Grown

ENCHANTRESS SUPREME. EUREKA
WHITE WONDER. PINK DELIGHT.
\$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL,
MATCHLESS,
\$7.00 per 100; \$55.00 per 1000.

LADY NORTHLIFF, PINK WINSOR,
WHITE WINSOR;
\$6.00 per 100; \$50.00 per 1000.

WOOD BROS., FISHKILL,
N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ELMER D. SMITH & CO. CHRYSANTHEMUMS

Ask for Catalogue

ADRIAN, - - - MICH.

CHARLES H. TOTTY

CHRYSANTHEMUMS

MADISON, N. J.

GERANIUMS

We have the largest stock, in better condition than we have ever had, and are in a position to take care of your orders in time. 3-in. at \$3.00 per 100, \$4.00 per 1000; S. A. Nutt, Gen. Grant, Mad. Buchner, Mad. R. E. G. Trego, etc., 2-in. at \$2.00 per 100, \$18.50 per 1000; 3-in. at \$3.00 per 100, \$25.00 per 1000. CROTONS, Good 4-in stock \$3.50 per doz., \$25.00 per 100. BOSTON FERNS, 7 in., \$8.00 per doz.; 8 in., \$10.00 each, \$9.00 per doz. Large pots, 10 in. to 12 in., pots from \$2.00 to \$4.00 each.

	2-in.	2-in.	3-in.	3-in.		2-in.	2-in.	3-in.	3-in.
	100	1000	100	1000		100	1000	100	1000
ACALYPHA	\$2.50	\$20.00	\$3.50	\$30.00	LEMON VERBENAS	\$2.00	\$18.50	\$3.00	\$25.00
ALTERNANTHERAS	2.00	18.50	3.00	25.00	LANTANAS, 10 varieties	2.00	18.50	3.00	25.00
AGERATUM	2.00	18.50	3.00	25.00	MOONVINES, White and Blue	2.00	18.50	3.00	25.00
ASPARAGUS SPRENGERI			5.00		PARLOR IVY, S. Scandens	2.00	18.50	3.00	25.00
BEGONIAS, Vernon	2.00	18.50	3.00	25.00	PETUNIAS, Double and Single				
COLEUS	2.00	18.50	3.00	25.00	Mixed	2.00	18.50	3.00	25.00
CUPHEA	2.00	18.50	3.00	25.00	POM-PON CHRYSANTHEMUMS			3.00	25.00
HARDY ENGLISH IVY	2.00	18.50	3.00	25.00	SALVIA, Bonfire and Zurich	2.00	18.50		
HELIOTROPE	2.00	18.50	3.00	25.00	SWAINSONA, White	2.00	18.50	3.00	25.00

CASH WITH ORDERS.

R. VINCENT, Jr., & SONS CO., WHITE MARSH, MD.

LILY OF THE VALLEY PIPS

Danish and German Stock

Booking Orders now for 1916 Crop

LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW FOR 1916 CROP

Valley

GERMAN, SWEDISH AND DUTCH PIPS

CHAS. SCHWAKE & CO., Inc.

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....591	Clucas, R. W.....573	Grey, Thos. J. Co.....577	Knoble Bros.....577	Palmer, W. J. & Son.....579	Siggers & Sig- gers.....591
Albany Cut Flower Ex.....584	Coan, J. J.....585	Gasser Co., J. M.....579	Kramer, F. H.....579	Park Floral Co.....578	Skidelsky, S. S. & Co.....577
Allen, J. K.....585	Cogger, Thos.....562	Gude Bros. Co.....578	Kreischell Bros.....590	Parshelsky Bros.....591	Slinn, Clarence.....585
Allen, Wm. Stu- art.....585	Cooke, Geo. H.....578	Gunther Bros.....585	Kuebler, W. H.....584	Penn the Florist.....578	Smith, Elmer D. & Co.....562
American Bulb Co.....577	Cowee, W. J.....582	Guttman & Ray- nor.....562-584	Lange, H. F. A.....579	Pennock - Meehan Co.....583	Smith, P. J.....584
Anderson, S. A.....579	Craig, Robt. Co.....573	Hail Association.....591	Leonard Seed Co.....577	Pierce Co., F. O.....591	Smith & Fetters.....579
Anglin & Walsh.....573	Crawbuck, Geo. W. Co.....585	Hammond Paint & Slug Shot Works.....575	Loechner & Co.....563	Piercer Co., A. N.....562	Smith, W. & T. Nursery Co.....573
Apline Mfg. Co.....575	Dards.....578	Hart, Geo. B.....584	Lord & Barn- ham Co.....592	Pierson, F. R.....564	Smyth, Wm. J.....579
Badgley & Bishop, Inc.....584	Davenport, A. M.....564	Heacock Co., Jo- seph.....562	McHutchison & Co.....564	Pochlmann Bros. Co.....582	Stearns Lumber Co., A. T.....591
Barrows & Son.....564	Delgado Q. Fran- cisco.....564	Henderson, A. & Co.....577	McManus, Jas.....584	Pratt Co., B. G.....575	Stumpp, G. E. M.....578
Bayersdorfer, H. & Co.....581	Dinda, Frank.....562	Hentz & Nash.....584	McConnell, Alex.....578	Pulverized Ma- nure Co.....575	Thorburn, J. M. & Co.....577
Bay State Nur- series.....573	Dorner, F. & Sons Co.....562	Hess & Swoboda.....579	MaeNiff Horticul- tural Co.....573	Randall's Flower Shop.....579	Totty, Chas. H.....562
Beers, H. P.....564	Dreer, H. A.....590	Hews, A. H. & Co.....590	Marshall, W. E. Co.....577	Reed & Keller.....582	Traendly & Schenck.....584
Bobbink & At- kins.....573	Dunlop, John H.....579	Hill, E. G. Co.....582	Meconi, Paul.....585	Riedel & Meyer.....584	United Cut Flower Co.....585
Boddington, A. T.....576	Dysart, R.....562	Hill, D. Nursery Co.....573	Metropolitan Ma- terial Co.....590-591	Reid, Edw.....582	Valentine, J. A.....578
Bolignano & Son.....577	Eastern Chemical Co.....575	Holland Nurser- ies.....573	Michell, H. F. Co.....577	Reuters.....579	Vincent, R., Jr., & Sons Co.....563
Breck, J. & Sons.....577	Edwards Folding Box Co.....58-	Holm & Olson.....579	Michigan Cut Flower Ex.....582	Robinson, H. M. & Co.....585	Ward, R. M. & Co.....562
Breitmeyer's, J. Sons.....578	Elliott Auction Co.....564	Irwin, R. J.....577	Millang, Chas.....584	Robleson, H. M. Co.....584	Welch, Herman.....585
Budlong, J. A.....582	Ernest, W. H.....590	Johnson & Mil- lang.....574	Moninger, J. C. Co.....591	Rochrs, J. Co.....564	Welch's.....582
Bunyard, A. T.....578	Ester, J. G.....579	Jacobs, S. & Sons.....590	Mt. Desert Nur- series.....564	Roland, Thomas.....579	Welch Bros. Co.....582
Burnett Bros.....577	Evans, J. A.....590	Kasting, W. F. Co.....582	Murray, Samuel.....578	Rolker, A. & Sons.....564	Welch, Pat'k.....585
Burpee, W. A. & Co.....577	Eyres.....579	Keller, J. B. Sons.....578	National Nur- seryman.....573	Rosery, The.....578	Wood Bros.....562
Carnation Support Co.....573	Farquhar, R. & J. & Co.....577	Kelway & Son.....577	Noetime Mfg. Co.....575	Schubert, Max.....578	Woodrow & Mar- ketos.....582
Carter's Tested Seeds, Inc.....576	Foley Mfg. Co.....591	Kerr, the Florist.....579	Nossen, Leo Co.....584	Schwartz, Chas. Co.....590	Young, John & Co.....584
Cedar Hill Nur- series.....564	Ford, M. C.....585	Kervan Co.....584	Onwerkerk, P.....573	Sharp, Partridge & Co.....591	Young & Nugent.....578
Childs, John Lewis.....564	Fotter, Fiske, & Rawson Co.....578	King Construc- tion Co.....590	Palladases Nur- series.....573	Sheridan, W. F.....584	Zvolanek, Ant. C.....577
Clarke's, D., Sons.....578	Frontenot, H. L.....585			Siebrecht, Geo. C.....584	
	Galvin, Thos. F.....579			Siebrecht, W. R.....584	
	Graham, Adam & Son.....579				

FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 586, 587, 588, 589

IN THE LINE OF PROGRESS

We Are Headquarters for All the

New Hybrid Astilbes for Forcing

Very large spikes, magnificent foliage, named varieties in all shades from pure white to pink and rosy violet. Strong clumps for immediate shipment

Don't waste your valuable space on the old superseded sorts.

These new ones are indispensable

MOUNT DESERT NURSERIES, BAR HARBOR, MAINE.

KENTIA SEEDS

NEW CROP—JUST ARRIVED

KENTIA BELMOREANA

KENTIA FORSTERIANA

COCOS WEDDELIANA

Write for Import Prices, stating quantity required

McHUTCHISON & CO., THE IMPORT HOUSE 95 Chambers St., New York

Hardy Roses

New York State Two-year Field-grown, can still furnish for this fall, delivery after harvesting, in low budded: Polyantha JESSIE, Climbing EXCELSA and in Own-rooted GRUSS AN TEPLITZ, HERMOSA, WHITE DOROTHY, all at \$12.50 the 100. Own-rooted Climbing EXCELSA at \$10 the 100 f.o.b. New York so long as unsold.

Do not delay ordering

AUGUST RÖLKER & SONS, 51 BARCLAY STREET, New York
or P. O. BOX 752

TWO MAGNIFICENT NEW SHRUBS

PHILADELPHUS VIRGINAL—The finest shrub in existence, large double flowers two inches in diameter, pure white, deliciously scented. Strong Plants \$2.00.

DEUTZIA CRENATA MAGNIFICA—A beautiful plant, pure white double flowers. A great improvement on the type. Strong Plants \$2.00.

A Fine New Clematis from Western China

CLEMATIS "FARGESII"—White flowers two inches in diameter. A strong growing vine that flowers at the end of June. Plants \$1.00.

CEDAR HILL NURSERY,

GLEN HEAD
L. I., NEW YORK

CINERARIA HYBRIDA GRANDIFLORA, 3 in. ready for 4½ in. \$5.00 per 100

CINERARIA STELLATA, Strong 3 in. ready for 4½ in. Mixed Colors, \$5.00 per 100

SMALL FERNS FOR DISHES

Plenty of Holly and Aspidium 2¼ in., \$4.00 per 100; \$35.00 per 1000. Adiantum rhodophyllum and cuneatum, 3½ in., very strong plants, \$8.00 per 100.

A. M. DAVENPORT, Watertown, Mass.

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.

WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.

ROOSEVELTS—\$5 per 100, \$40 per 1000.

BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

ORCHIDS

Francisco Delgado Q.

Orchid Collector

Solicits orders for shipments of Orchids.
Prices quoted upon application.

BOGOTA (Chapinero) COLOMBIA

OLDEST AUCTION HOUSE

IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co.

42 Vesey St., New York

DO NOT FAIL TO STOCK Primulinus Hybrids

(GLADIOLI)

They contain all the Nasturtium colors, Art shades, Terra Cotta, Apricot, etc.

The last word in dainty decorations

40c. per doz.; \$2.50 per 100;

\$20.00 per 1000

JOHN LEWIS CHILDS, INC.,

FLOWERFIELD L. I., N.Y.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, N. Y.

When writing to advertisers kindly mention HORTICULTURE.

ORCHIDS

CONSERVATORY PLANTS

BEGONIAS

Lorraine, Cincinnati and Mrs. Peterson

JULIUS ROEHRS CO.
Rutherford, N. J.

500,000 Giant Pansies

Grown from the Famous Jennings strain of seed. By express, 500, \$2.00; 1000, \$3.50. Large plants in bud and bloom, \$10.00 1000.

CASH WITH ORDER.

H. P. BEERS, GREEN'S FARMS
CONN.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toll, we ought to blame the culture, not the soil."—*Pope*.

Begonia Gloire de Lorraine

There can be no doubt as to the superiority of early started plants from leaf cuttings over those propagated later by rooting side shoots in the usual way, though the latter have their uses and are probably as useful as anything expressly raised for a holiday trade. Now is a good time to start propagation of *Begonia de Lorraine* and *Cincinnati*. Stock for next year must spring from early struck leaf cuttings. A steady heat of not less than 70 degrees in the sand with a few degrees overhead, a somewhat close and moderately humid atmosphere, frequent sprinkling and the exclusion of bright sunshine by portable shades will insure a good start and healthy root formation. Well matured leaves but still of a healthy spotless green are taken from the most vigorous plants in such a manner as to cause no disfigurement. Cutting away the stubby end of the leaf is all the trimming needed. This lower end when inserted in the sand will just bring the base of the leaf in close contact with the surface of the sand bed.

Callas

Don't fail to fumigate regularly or greenfly and thrips will get ahead of you. About once a week should keep the plants free. Ventilation should be given on all favorable days. To bloom well, callas require a night temperature of from 55 to 60 degrees. When in continuous flower, they eagerly take up large quantities of plant food from the soil and should have liquid manure regularly once a week and, when spring is nearing, twice a week. Now when fire heat is necessary a sufficient amount of water should be used on the paths and around the house for the prevention of a harsh and dry atmosphere. On all good days give them a syringing after the flowers have been cut. These plants will assure fair returns if grown under anything like fair treatment during the winter and spring. Keep the old foliage trimmed away, which will let more air and light to the rest of the plant.

Lily of the Valley

For early forcing choose the Berlin pips, and the Hamburg pips for late forcing. Cold storage should be relied upon for the supply up to the holidays. The sand bed should have a bottom heat of at least 85 to 90 degrees. Keep them moist with several sprayings overhead during the day until the bells are well formed, when spraying should cease. Shade heavily for the first two weeks, afterwards admit light in a gentle manner for about two days, when all the shading can be removed. If grown in flats they can be stood in the cool end of the house which will give the flowers a fine texture and help their durability. It will be pretty hard to get the normal supply this year.

Paper Whites and Roman Hyacinths

Roman hyacinths should be given 60 degrees at night and allowed six weeks to come into flower, but give them also full light. I have often mentioned that paper whites should be brought in early and given lots of time in a cool house. Pay a little more attention to it: provide a light, sunny, cool house where the flowers can develop slowly. If you have plants which seem a little forward a temperature of about 40 degrees and enough shade to exclude the sun will keep the stock at a standstill. The same can be said of Roman hyacinths, although they will endure a much higher temperature without harm. I have seen paper whites brought in and put down by the side of the path in a warm house where they grew all to leaves. Bring in the flats in the first half of November and put them on the bench in the full light, in a house where it is about 50 degrees at night.

Sweet Peas

To ensure a free healthy growth it is always better during spells of rainy or misty weather to have a little heat and ventilation at the same time. Don't run sweet peas too high, which only leaves them weakened in constitution from which they do not easily recover. While they always like plenty of moisture at the roots they will not stand a continual over moist condition, so let them dry out once in awhile. To grow sweet peas successfully, ventilation is one of the cardinal points. Now that the cool nights have arrived keep a little heat running through the pipes and at the same time have the ventilation open a little at the top; this will give them a cool dry atmosphere which is a good preventive for the dropping of buds. A sowing made now in 4-inch pots will bring in a crop in February which should last for about three months. Keep them well supported from time to time. As the days grow shorter the utmost attention and good judgment should be paid to watering.

Reminders

Lift carefully and pot small shrubs for window and veranda decoration.

Prepare all beds that are to be planted to bulbs and have them in readiness.

Now is a good time to cut up old plants of *Cyperus alternifolius* for propagating purposes.

Clean up shrubs for forcing, by cutting out any unnecessary shoots and give a top dressing with a good compost.

Mark the date of potting or boxing of all bulbs clearly so that it can be seen without disturbing the plunging material.

HORTICULTURE

VOL. XXIV

OCTOBER 28, 1916

NO. 18

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 147 Summer Street, Boston, Mass.

Telephone, Oxford 292.
 WM. J. STEWART, Editor and Manager.

Entered as second-class matter December 8, 1904, at the Post Office
 at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION— <i>Taxus cuspidata</i> .	
NOTES ON CULTURE OF FLORISTS' STOCK— <i>Begonia</i> Glorie de Lorraine— <i>Callas</i> — <i>Lily</i> of the Valley— <i>Paper Whites</i> and <i>Roman Hyacinths</i> — <i>Sweet Peas</i> — <i>Reminders</i> — <i>John J. M. Farrell</i>	565
ROSE GROWING UNDER GLASS— <i>Liming the Benches</i> — <i>Tying</i> — <i>Arthur C. Ruzicka</i>	567
TAXUS CUSPIDATA	567
THE COLLECTION OF NEPHROLEPIS VARIETIES AT THE BROOKLYN BOTANICAL GARDENS— <i>R. C. Benedict</i>	568-569
SELECTING ORCHID SEEDLINGS.....	569
CLUBS AND SOCIETIES— <i>California Association of Nurserymen</i> — <i>Westchester and Fairfield Horticultural Society</i> — <i>Meetings Next Week</i> — <i>American Peony Society</i> — <i>Lancaster County Florists' Association</i> — <i>Massachusetts Horticultural Society</i> — <i>Sewickley Horticultural Society</i> — <i>American Rose Society</i> — <i>Florists' Club of Hartford</i> — <i>Club and Society Notes</i>	570-571
OBITUARY— <i>John S. Brown</i> — <i>John K. Vosburgh</i> — <i>George L. Huscroft</i> — <i>E. E. Rexford</i>	571
THE EXHIBITIONS— <i>Boston Autumn Flower Show</i> — <i>Iowa Autumn Flower Show</i> — <i>Coming Events</i> — <i>Horticultural Society of New York</i> — <i>Second Annual Cleveland Flower Show</i> — <i>Chicago to Bloomington</i>	572
<i>St. Louis Spring Flower Show</i> — <i>Chrysanthemum Society of America</i>	575
DURING RECESS— <i>Boston Florists' Bowling</i> — <i>At St. Louis</i>	575
SEED TRADE— <i>One Week's Imports</i>	576
OF INTEREST TO RETAIL FLORISTS: <i>Florists' Telegraph Delivery Association</i> — <i>New Flower Stores</i>	578
<i>Flowers by Telegraph</i>	579
NEWS ITEMS FROM EVERYWHERE: <i>Pittsburgh, Chicago, Philadelphia, Boston, St. Louis, New York, Washington</i>	580-581
FLOWER MARKET REPORTS: <i>Boston, Buffalo, Chicago, Cincinnati, New York, Philadelphia</i>	583
<i>Pittsburgh, St. Louis, Washington</i>	585
MISCELLANEOUS: <i>Notes from Cornell University, Illustrated</i>	574
<i>Massachusetts Agricultural College Notes</i>	574
<i>Greatness Achieved</i>	576
<i>Publications Received</i> — <i>Catalogues Received</i>	576
<i>New Corporations</i> — <i>Business Troubles</i>	576
<i>News Notes</i>	576
<i>Where Orchids and Gardenias Flourish</i>	581
<i>Visitors' Register</i>	585
<i>Greenhouses Building or Contemplated</i>	590
<i>Patents Granted</i>	590

The
 convention
 garden horizon

We hear much that is pleasing and encouraging concerning the Convention Garden for 1917. The site selected in Bronx Park, New York, is an ideal one for the purpose, beautiful in its setting and being so conveniently reached, will unquestionably prove a great attraction to the convention visitors and to the public, which in New York includes innumerable summer tourists from afar. As a large attendance from remote sections of the country is

always assured at a New York convention, here will be an unexcelled opportunity for displaying not only the best garden material of today but also to present object lessons in effective grouping and artistic arrangement. But, be it remembered, that much of the planting can be advantageously done now—in fact, *must* be done this fall if it is to do full justice to the occasion. It is hoped that a large proportion of the plantings shall be made with the view that they may remain permanently and thus carry forward uninterruptedly the good work and influence of the S. A. F. during the coming years. This is especially applicable to the rock gardens and aquatic exhibits, fine examples of which are understood to be forthcoming. Secretary John Young is particularly optimistic as regards this feature of the big event.

We're
 "getting there"

The trend of interest in the Experiment Stations and State and National horticultural institutions generally is undoubtedly working towards a larger recognition of and fuller cooperation with the floricultural or ornamental departments of horticulture. Amherst, Ithaca, Urbana and other educational centres have been wheeling into line and each year sees advancement in the desire and in the ability to serve the floricultural interests in a practicable and acceptable manner. Our readers will find evidence and encouragement in our notes from Ames, Iowa, in the assurance there given of the laudable desire of the agricultural college of that state to work for the development of the floricultural interests of the community and of the sincere disposition of the florists of Iowa to cooperate with the College in whatever plans and efforts it may undertake to this end. It has been said that "whatever is of permanent value is usually of slow growth." We have long watched this "little cloud like a man's hand." Its growth has been exasperatingly slow but it is big now with the promise of the recognition to be accorded to ornamental horticulture as second to none among the many excellent and reputable commercial activities to which a young man may wisely turn in choosing his life work.

Further
 progress

The flower show period is now close upon us. We hope and believe that these events for which thousands of the country's most enterprising and public-spirited horticulturists have been zealously preparing will all be successful financially, educationally, artistically, socially and in all other respects that can contribute to complete success. As HORTICULTURE has frequently taken occasion to point out, there are certain essentials in which many of the flower shows of the past have been lamentably lacking. There are also many cheering indications that these deficiencies are now quite generally recognized and that sincere efforts are being made for improvement on the line of popular education towards a greater and better use of our products, through the medium of the flower shows as object lessons. Exhibits intended primarily to astonish with a display of cultural skill are of course desirable—we might say indispensable—features of a well-regulated flower show but in these modern days "gaping crowds" gape no more at flower shows if they have to pay for the privilege. The notes in reference to the proposed exhibition at the Massachusetts Agricultural College, which appear on another page of this paper, are suggestive as showing one phase of the tendency away from the stereotyped flower show with which our readers are all familiar. Here and there all over the country the leaven is working and wherever it does work it means *Progress*.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Liming the Benches

Most growers will figure to be a little off crop during this time of the year when the chrysanthemums are in the market by the thousand, which as a rule means that the price of roses drops a little. In order to have the plants off crop it is necessary to cut a crop just before the chrysanthemum season, and if this is done the plants will now be about swelling buds for another crop. At this stage if the soil is as most soils are, getting a little packed so that it does not drain freely, and green here and there, a liming of the benches will help correct the condition and at the same time help the plants a great deal. To do this fresh air-slacked lime should be used. Hydrated lime is ideal but it is more expensive in some sections of the country. Limestone should not be used as it is too slow in action, which may be all very well out in the field but in the rose houses an immediate response is necessary from everything if the grower is to pay himself decent wages and earn a reasonable rate of interest on the money invested. The best way to do is to dump a barrel or two of lump lime right on the ground outside and sprinkle it with a hose until it starts to slack when more water should be added until the lime forms a fine powder. It will be necessary to keep it stirred so that it will not be too wet in places. It will be too hot to use at once but will soon cool off so that it can be applied and it should then be applied without delay if the benches are in shape to take it. It is best to have the plants a little dry at the root and when the lime is applied rub the benches over a little, getting all weeds and yellow leaves off as the work is done. Where time will permit it would be ideal to have the benches thoroughly cleaned before the lime is applied but this is not always possible, although it is much better for the plants to have the benches clean. After the lime is scratched in the plants can get a good watering so that it will get right into the soil. Once in a while there will be a bench that will not dry out at all. In a case of this kind the lime can be applied and rubbed in, and no water applied until after the plants are dry enough. The lime will cake when this is done at times but it can easily be broken up by scratching the benches over, and will not be a loss; in fact it will stay on the benches longer and the plants will take it up as they need it. Care should be taken to have the lime free from unslacked lumps. If there were any they will slack right after watering and care should be taken to go over all the benches and scratch these up so that there will not be too much lime in one place. Care should be taken to apply the lime very evenly and should there happen to be a little more here and there see that it is spread around when the benches are scratched over.

Tying

Go right after this especially in the Beauty houses. Other roses do much better if kept tied but they will not be ruined by being left untied, as Beauties will. It is very hard to syringe or do anything around the Beauties if they are not tied up properly and we consider proper tying a very important thing in their culture. All long stems that are too high above the top wire should be bent down and these should be kept nicely even so that all the tops will look as if they were growing to a tightly stretched line. This will give them all an equal show and prevent one from shading the others too much. Of course all stems that are showing buds should be allowed to remain up as the buds will develop much better and there will be no danger of breaking the stem while bending it down, as the stems get harder after the buds begin to show. All extra heavy stems can be left up, too, as they make a nice showing, and the chances are that if they were bent down they would be broken. In tying Teas, care should be taken not to bunch the plants up too much. To put a string right around the plant and draw all the growth to the stake tightly may be a quick way to do but is far from proper and when the welfare of the plant is considered it is absolutely wrong, as a plant tied thus will lose a good deal of its foliage and will not produce the buds that a properly tied plant will. It will also be impossible to keep spider out of plants thus tied and will be a nuisance while cutting. The proper way is to tie all growths between the first and second leaf from the bottom, so that when the buds are cut off the remaining eyes will be already tied, thus making it unnecessary to tie the coming growth again. When thus tied the plants will look neat and will have all the chance in the world to develop; will be easy to syringe and no trouble to cut, as the string will serve as a guide so the man with the knife will lose no time, as all buds can be cut one eye above the string.

Taxus Cuspidata

(See Cover Illustration)

The Japanese yew is perfectly hardy, does not burn in winter, and in every way is a valuable evergreen for New England gardens. Indeed, Prof. C. S. Sargent has stated that this yew is the finest plant which Japan has contributed to our gardens. Introduced to the Parsons Nurseries, Flushing, L. I., N. Y., in the early '60s of the last century, it is by no means as well known as its merit entitles it to be. It is splendid as a specimen plant on the lawn or elsewhere, and ought to be used as a hedge plant. Fine specimens are scarce, those at the Bayard Thayer estate being among the best. The plant shown on the cover page of this paper is one of eight moved by Superintendent William Anderson to its present location five years ago. It is twelve feet in height and ten feet through.

The Collection of *Nephrolepis* Varieties at the Brooklyn Botanic Garden

Some eight months ago, the writer published in the trade press an account of the *Nephrolepis* collection at the Brooklyn Botanic Garden, together with a suggestion for a means of co-operation between the Garden and florists which would be of mutual benefit. The offer made in behalf of the Garden was to send out small plants of named varieties from a list then published as far as duplicates were available, the purpose being to aid florists in the building up of collections and testing new varieties. Second, the Garden offered to act as a bureau of information regarding these ferns, and, in this connection, offered to send out copies of a reprint of the *Nephrolepis* article from the New Standard Cyclopaedia of Horticulture. Florists were asked in return to send information to correct or supplement the statements in the article, and also to send plants of varieties not on the list. The present statement is in the nature of a report on the results obtained with a further offer of co-operation on the same lines as before.

About two hundred copies of the *Nephrolepis* articles have been sent out, the great majority to commercial growers. Several hundred small plants have been distributed in lots varying from five to thirty different kinds, according to what was available. These have gone to all corners of the United States, and applications have come from Australia and New Zealand. A considerable number of florists have thus been able to build up collections for exhibition purposes, and at least one grower expects to add one form so obtained to the list offered in a mail order catalogue.

The *Nephrolepis* investigation work at the Garden has also profited. The collection of *Nephrolepis* forms has more than doubled. The list previously published included forty named sports of *N. exaltata bostoniensis*. The present list includes seventy. Of varieties of other species, fifteen were given before. Now there are fifty names. It should be noted that I say "fifty names," not fifty varieties. Some of these names are undoubtedly synonyms. The list of actually distinct forms may not be more than thirty, but it is yet impossible certainly to determine the proper names for these varieties or the exact number of different kinds. The difficulty in correctly classifying these forms is due in part to carelessness and inaccuracy on the part of growers and others and in part to the fact that the classification of the original species of *Nephrolepis* is an unusually difficult problem.

Besides the named varieties a considerable number of unnamed kinds have been sent in for experimental growing to the number of at least fifty. When full grown plants of all kinds are developed it will undoubtedly be found that some of these unnamed

forms are duplicates of varieties already in the trade. It is safe to say, however, that the present living collection at the Garden includes at least one hundred and twenty-five distinct varieties of *Nephrolepis*.

About thirty of this increase of sixty odd kinds have been obtained by purchase from English and French growers. The remainder have been received through the co-operation of American growers and botanic gardens. The Bureau of Plant Industry through its Office of Foreign Plant Introduction is now co-operating through its agents in all parts of the tropics, who are collecting specimens of the wild forms to be grown and compared with the types under cultivation.

The writer has continued his visits to commercial establishments through the aid of a grant of one hundred dollars from the American Association for the Advancement of Science. Growers in Columbus and Springfield, Ohio, and in and about Boston, New York and Philadelphia have been visited, some of them several times. A great deal of valuable information has been gained in this way. A partial scientific report of the study of these plants has been published in the May number of the Bulletin of the Torrey Botanic Club and reprinted as Contributions Number 13 of the Brooklyn Botanic Garden. Further reports are in preparation.

In the meantime the facilities of the collection continue to be available for the benefit of florists. Small plants of named varieties will be sent on application as far as the stock of duplicates allow. Definite applications for few and specific varieties will receive preference over general application but all will be served as far as possible. If general applications are made for the purpose of building up collections of varieties, the request for specimens should include a list of the kinds already being grown to avoid duplication.

Not all the varieties listed here are available for distribution, although there is a much larger assortment than last year. Some have only recently been received from England and there has been insufficient time for propagation of small plants. Others, especially some in the second group, are very slow to reproduce, or so large and require so much space that it has not been possible to give them bench room. In general, the varieties in the second group are mostly of little commercial value in the United States except for large collections.

Perhaps the collection can find its greatest value for florists as a clearing house of information about *Nephrolepis* forms. How this might work out was suggested recently by a well known grower of the New York district. As president of one of the local growers' associations he had had

occasional requests for an opinion as to the value and distinctiveness of some supposedly new form of *Nephrolepis* sent in by some florist of the district. The only means of answering such a question would be by reference to some practically complete collection of these forms. The writer will be glad to answer questions along this line and regarding any other phase of interest in connection with these ferns. Visitors are welcome at any time.

NEPHROLEPIS EXALTATA AND ITS VARIETIES ONCE PINNATE FORMS.

exaltata. wild species, tropics generally.

bostoniensis. F. C. Becker, Cambridge, Mass., and others.

Childsi. J. L. Childs, Floral Park, L. I.

Dreyeri. Dreyer Brothers, White-stone, N. Y.

Dwarf Boston. F. R. Pierson, Tarrytown, N. Y.

Edmontoniensis. H. B. May & Sons, Upper Edmonton, England.

falcata. Peter Wagner, Brooklyn, N. Y. (There is also an English *falcata*.)

Gretnai. B. M. Wichers & Co., Gretna, Louisiana.

Giatrasi. George Giatras, West Hoboken, N. J.

Harrisii. Wm. K. Harris & Co., Philadelphia, Penn.

New York. George Giatras, West Hoboken, N. J.

Randolphi. Randolph & Sons, Verona, Penn.

Roosevelti. American Rose & Plant Co., Springfield, Ohio.

Schultheisi. Anton Schultheis, College Point, N. Y.

Scotti. John Scott, Brooklyn, N. Y. *splendida**. Good & Reese Co., Springfield, Ohio.

Teddy Jr. American Rose & Plant Co., Springfield, Ohio.

viridissima. F. R. Pierson, Tarrytown, N. Y.

Wagneri. Peter Wagner, Brooklyn, N. Y.

*Wanamakeri**. Robert Craig, Philadelphia, Penn.

TWICE PINNATE FORMS.

Anna Foster. Lucius H. Foster, Dorchester, Mass.

Baby Pierson. (parentage uncertain).

Barrowsi. Henry H. Barrows & Son, Whitman, Mass.

Clarki. Clark (?)

Duplex bernsteini. (?)

Elmsfordi. Scott Brothers, Elmsford, N. Y.

Fosterianna. (Same as Anna Foster).

Kingessing. Wm. K. Harris & Co., Philadelphia, Penn.

Millsi. Wm. K. Harris & Co., Philadelphia, Penn.

*Produces some 2-pinnate leaves. As typically developed, 3-pinnate

Piersoni. F. R. Pierson, Tarrytown, N. Y.
 Piersoni "improved." Good & Reese Co., Springfield, Ohio.
 robusta. Robert Craig, Philadelphia, Penn.
 Schilleri. J. L. Schiller, Toledo, Ohio.
 Scholzei. Herman Scholzel, New Durham, N. J.
 splendida. Good & Reese Co., Springfield, Ohio.
 superbissima. F. R. Pierson, Tarrytown, N. Y.

THREE PINNATE FORMS.

Clark*. (Clark) (?).
 elegantissima. F. R. Pierson, Tarrytown, N. Y.
 elegantissima "improved." F. R. Pierson, Tarrytown, N. Y.
 elegantissima compacta. F. R. Pierson, Tarrytown, N. Y.
 elegantissima cristata. (?). (English).
 exaltata cristata. (?). (English).
 Galvestoni. J. D. Pruessner, Galveston, Texas.
 lycopodioides. Thomas Rochford & Sons, Herts, England.
 muscosa. F. R. Pierson, Tarrytown, N. Y.
 Piersoni compacta—elegantissima compacta.
 Pruessneri. J. D. Pruessner, Galveston, Texas.
 Scholzei. Herman Scholzel, New Durham, N. J.
 Superior. Superior Nursery, Los Angeles, Cal.
 todeoides. Thomas Rochford & Sons, Herts, England.
 todeoides compacta. Thomas Rochford & Sons, Herts, England.
 todeoides superba. Thomas Rochford & Sons, Herts, England.
 Verona. S. Randolph & Sons, Verona, Penn.
 Whitman. Henry H. Barrows & Son, Whitman, Mass.
 Whitmani "improved." Henry H. Barrows & Son, Whitman, Mass.
 Whitmani compacta. Henry H. Barrows & Son, Whitman, Mass.
 Wichersi. B. M. Wichers & Co., Gretna, La.
 Wredii. Thomas Rochford & Sons, Herts, England.

FOUR PINNATE FORMS.

Amerpohli. Edward Amerpohl, Janesville, Wis.
 dissecta. (English).
 Goodii. Good & Reese Co., Springfield, Ohio.
 "gracillima." (Not certainly the original gracillima of Barrows).
 magnifica. Henry H. Barrows & Son, Whitman, Mass.
 Marshalli. H. B. May & Sons, Upper Edmonton, England.
 Marshalli compacta. H. B. May & Sons, Upper Edmonton, England.
 Neuberti. Neubert.
 pulcherrima. (English).
 Rochfordi. Thomas Rochford & Sons, Herts, England.
 Smithi. L. Z. Clark, Washington Botanic Garden.

FIVE PINNATE FORMS.

Craigi. Robert Craig, Philadelphia, Penn.
 Willmotae. H. B. May & Sons, Upper Edmonton, England.

NEPHROLEPIS VARIETIES AND SPECIES OTHER THAN EXALTATA.

acuminata
 acuta
 Barteri
 Bausei
 biserrata
 biserrata (*daralliioides*) furcans
 biserrata furcans minor (*daralliioides furcans minor*)
 biserrata var. (Undetermined form)
 canaliculata
 concinna
 cordata compacta—cordifolia compacta
 cordifolia compacta
 cordifolia gigantea
 cordifolia elegans
 cordifolia tessalata
 crispata congesta
daralliioides—biserrata
daralliioides furcans—biserrata furcans
 Duffii
 exaltata (= cordifolia)
 "exaltata furcans"—biserrata furcans.
 "exaltata grandiceps" = biserrata furcans minor
 floccigera
 "Golwigheriana" (Zollingeriana?)
 hirsutula
 hirsutula tripinnatifida
 Longii (= superba)
 Mayii
 Mayii cristata
 Mayii ornata
 pectinata
 philadelphiensis
 pluma
 recurvata
 rivularis
 rufescens (= hirsutula)
 rufescens amabilis
 rufescens elegans
 rufescens tripinnatifida
 splendens
 superva
 tuberosa
 tuberosa plumosa
 washingtoniensis
 Westoni
 Wittboldii
 Zollingeriana

R. C. BENEDICT.

SELECTING ORCHID SEEDLINGS.

If in former times seedling orchids were few and far between, their presence was a continued source of pleasure to the owner as well as wonderment to the visitor. But the difficulties experienced in the past have given place to results of so satisfactory a nature that in the words of a well known raiser success now smiles upon us.

The amount of success that comes to an individual engaged in the interesting work of seed-raising is judged according to the number of seedlings he requires. Thus an amateur may justly be pleased with 100 seedlings from some particular seed-pod, and if from these he succeeds in growing on and flowering fifty then satisfaction is obtained. But a trade grower with his exhibition needs and wide circle of customers would more likely require 1,000 seedlings, of which 750 might well be expected to ultimately reach the flowering stage.

It is common knowledge that some genera are more easily raised than others, and, further, that certain species are particularly vigorous and

produce seed which germinates rapidly and in such immense quantities that only a small proportion of the tiny seedlings are pricked off for future requirements. Whether it be the amateur who wants but fifty or the trade grower who desires ten or twenty times the number, each class of raiser, in order to keep within the limits of his stage accommodation, generally finds it necessary to select the number he requires and to discard the remainder, which in some seed-pans will amount to thousands and even tens of thousands.

The question of deciding which seedlings to select and which to discard is one of great importance, far more so than it may on first thoughts appear to amateurs. Consider the *Sophranitis* hybrids, in which the intention of the hybridist was to produce large flowers of scarlet color, and with what results, the seedlings vary in size as much as the flowers do in color. One fact, however, always comes out prominently in the general results—when the seedlings resemble the habit of the *Sophranitis* parent then do the flowers show the greatest tendency to inherit the required scarlet color; the seedlings which grow the strongest and most closely resemble the other parent are fairly certain to yield the largest flowers, but they do not carry forward the required color. Hence it is readily seen that in selecting for future cultivation the seedlings from a *Sophranitis* cross it is necessary to pick out not the strongest or largest in size, but those which most closely resemble the habit of the *Sophranitis* parent.

There are several strong distinguishing points which serve as guides to the selection of certain characters. Mention may be made of the long bulbs of *Laelia cinnabarina*, *L. harpophylla*, *Cattleya intermedia* and *C. Loddigesii*; also of the shorter bulbs, as seen in *C. labiata* and others of its section. Then there is the difference in the foliage, some species bearing but a single leaf, while others carry two and sometimes three. Three characteristics are nearly all visible in the early stages of the seedling's existence and the seed-raiser is thus considerably assisted in distinguishing and pricking out the very seedlings which will in the majority of cases produce the anticipated qualities in their flowers.

It is the custom among certain raisers to prick-off the required number of seedlings from any particular sowing as soon as they are large enough to be conveniently handled; the remainder are then thrown away. This method has much to commend itself as regards selecting vigorous plants, that is, seedlings which will rapidly reach the flowering stage and also prove suitable for amateurs, for it is of little use raising fine hybrids if their constitution is so poor that very few amateurs can keep them alive for more than two or three seasons. Hence, in selecting the most vigorous seedlings from the seed-pan, consideration should always be given to the parentage involved. In many instances the qualities desired to be perpetuated belong to a vigorous parent, and in this case the cultivator acts wisely in selecting the strongest seedlings.—*The Orchid World*.

CLUBS AND SOCIETIES

CALIFORNIA ASSOCIATION OF NURSEYMEN.

The sixth annual meet of the California Association of Nurserymen was held in the Convention Hall of the Civic Recreation Building, Santa Barbara, October 26, 27 and 28, 1916. The program of papers and topics for discussion included the following:

Production, Prices, Salesmanship and Credits, by George C. Roeding, President Fancher Creek Nurseries, Fresno.

Horticultural Laws, Pomologists and Plantsmen, by George H. Hecke, State Horticultural Commissioner, Sacramento.

Transportation Freight Rates as Affecting the Development of California's Nursery Industry, by Chas. W. Ward, President Cottage Garden Nurseries, Eureka.

California Native Plants in Our Parks and Gardens, by Theodore Payne, California Wild Flower Specialist, Los Angeles.

The Orange and Lemon in an Art Atmosphere, by F. N. Renfro, Secretary National Orange Show, San Bernardino.

Standardization of Commercial Nursery Products, by Wm. T. Kirkman, Jr., President Kirkman Nurseries, Fresno.

The Proposed California Pure Seed Law, by George P. Weldon, Deputy State Horticultural Commissioner, Sacramento.

Commercial Bulb Growing in California, by Colin H. McIsaac, Secretary Chamber of Commerce, Santa Barbara.

The Latest in Avocados and other Tropical Fruits, by T. U. Barber, Hart & Barber Avocado Company, Los Angeles.

Plant Immigrants in Our Parks and Gardens, by Prof. R. T. Stevens, Landscape and Floriculture U. of C., Berkeley.

The City Beautiful—Its Parks and Boulevards, by Ernest Brauntun, Santa Barbara.

The House Beautiful, Plants for Porch and Interior Decorations, by Mrs. Myrtle Shepherd Francis, Ventura.

New Plants of Commercial Value to the Trade, by D. W. Coolidge, President Coolidge Rare Plant Gardens, Pasadena.

Santa Barbara: A Mecca for Plant Lovers, by Frank Ball, Santa Barbara.

Friday evening was Ladies' Night.

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

The principal features of the October session of this society was the large attendance and fine exhibition of flowers. The judges awarded cultural certificates to Wm. Grehem for bouvardia; high commendation to Robt. Grunnert for carnations, and to Anthon Pederson for roses, also to the

Meetings Next Week

Wednesday, Nov. 1.

Tuxedo Horticultural Society, Tuxedo Park, N. Y.

Thursday, Nov. 2.

Albany Florists' Club, Albany, N. Y.
Reading (Pa.) Florists' Association, Reading, Pa.
Southampton Horticultural Society, Odd Fellows Hall, Southampton, N. Y.

Friday, Nov. 3.

North Shore Horticultural Society, Manchester, Mass.
North Shore Horticultural Society, Lake Forest, Ill.
Pasadena Horticultural Society, Pasadena, Calif.
Yonkers Horticultural Society, Yonkers, N. Y.
People's Park Cottage Gardeners Association, Paterson, N. J.

Saturday, Nov. 4.

Pacific Coast Horticultural Society, San Francisco, Calif.

latter a vote of thanks for carnations, miscellaneous flowers and grapes. P. W. Popp was highly commended for gladioli, a cultural certificate having been previously awarded. Everything is in readiness for the Fall Exhibition to be held this year in Greenwich, Ct., October 31 to November 1. A handsome schedule of 121 classes is in readiness for distribution. Valuable prizes of silverware, cut glass, and cash are offered in all classes. J. H. Troy and F. E. Conine who were visitors addressed the meeting briefly. The next meeting will be held Nov. 10 when the nominations for officers for 1917 will be in order.

P. W. Popp, Cor. Secy.

AMERICAN PEONY SOCIETY.

Bulletin of Peony News, No. 3, together with the Proceedings of the American Peony Society for 1916 has been published by the Society and sent out by Secretary Saunders from whom copies may be had on application, and who also, will no doubt be pleased to answer any inquiries regarding the society's work and the conditions of membership. The document is a 30-page pamphlet and contains the proceedings of the society, a report on the New York exhibition and on local exhibitions, a very valuable symposium of the newer foreign varieties, a contribution on *Paeonia lutea* as a basis for cross-fertilization by W. H. Thurlow, a chapter on peony fragrance, notes from the secretary's office and a list of the officers and members of the society.

According to the treasurer's report the society has \$1,722.42 in the treasury. Thirty-four new members were elected at the New York meeting, and the attendance at the exhibition totalled 16,082. The next meeting will be held in 1917 in Philadelphia.

LANCASTER COUNTY FLORISTS' ASSOCIATION.

Thursday the 19th was worse than any Friday the 13th ever heard of, but in spite of all this twenty-two loyal florists turned out to visit the establishments in the vicinity of Lancaster. Five automobiles did the conveying act and everyone enjoyed the trip. The first call was made on Rudolph Nagel, "Chrysanthemum King" of this section. He has all of the good ones in fine shape along with a few that are not living up to their reputation, but this is always the case where one buys all the novelties. Pompons are exceptionally good. Geraniums are grown as a side line and we found sweet peas and mignonette being started to take the place now occupied with chrysanthemums. At the B. F. Barr greenhouses was found everything pertaining to the growing end of a retail establishment. Three houses of roses, three of carnations, sweet peas, daisies and every imaginable variety of pot plant. A number of houses have been remodeled, several new ones added and the whole place has an appearance of prosperity.

From Barr's we went to Thos. R. Fries, where stock is grown for the market in great variety. Next door to Fries is The Wheatland Greenhouses, under the management of the writer, with J. L. Lockard as the grower, and as this stock had been very much deteriorated Mr. Lockard deserves credit for the fine condition we found it on this visit. The output this season will be chrysanthemums, carnations and snapdragon.

At President Harry Schroyer's we found the storeman's usual assortment, with chrysanthemums in the majority. Many things cannot be grown here on account of the smoke from the railroad. At Secretary Frank Kohr's, close by, we found sweet peas and calendulas started for the shipping trade, the balance being devoted to market stock.

At Enos Kohr's we saw over forty thousand carnations, not one plant missing or any dead leaves. Chrysanthemums were not grown extensively, but what he had were immense flowers on ten-foot stems. If there are not a few houses added here next summer it will not be the fault of this winter's crop.

At the next place visited, that of Henry D. Rohrer, run under the supervision of his two sons, carnations are all planted in solid beds and look perfectly at home. Chrysanthemums are also largely grown, a good proportion being Bonnaffon, with a small house devoted to novelties, a good number of which are intended for our show. They also have a house of myosotis for cut flowers and primulas by the thousands. There is never any idle space here, one crop following another in rapid succession.

Lemon Landis grows a variety of stock for the stores and ships quite a bit during the year. He has several

houses of smilax, the only ones around this section.

J. P. Seibold has gotten out of the geranium business and his place is devoted to cut flower stock and it will not be long before some more geranium growers drop out if they continue to sell at the prices current the past few years.

Mr. Wissler has bought the establishment of the late Geo. Goldbach and is working hard to get it into shape for the winter. He has the usual assortment of cut flowers, with several houses devoted to callas, which always were a paying crop with this place.

J. Otto Thilow, of Henry A. Dreer, Inc., who had given his lecture on "Flowers from Snow to Snow" before the Civic Branch of the Iris Club in the afternoon, was entertained at dinner by Mr. and Mrs. Harry Schroyer, Mr. and Mrs. Albert M. Herr, Harry K. Rohrer and Ira Landis at the Hotel Brunswick in the evening, after which he gave his lecture on "The Canadian Rockies and Their Flowers" to the Florists' Club, including ladies, and it was appreciated more than words could express, although an attempt was made in a formal vote of thanks to Mr. Thilow.

This being the last regular meeting before the Flower Show which will be held Nov. 9, 10, and 11 a special meeting will be called for the distribution of tickets and such other matters as they come up.

We were fortunate to have with us on our visiting trip and at the club meeting S. S. Pennock, James Brown of Coatsville and T. J. Nolan, three regular "gloom chasers" who helped wonderfully to make us forget the clouds and rain during the trip around the city.

ALBERT M. HERR.

MASSACHUSETTS HORTICULTURAL SOCIETY

The nominating committee of the Massachusetts Horticultural Society announces the following nominations of candidates for the various offices of the Society to be filled at the annual meeting, November 18:

President, Richard M. Saltonstall; vice-president, Nathaniel T. Kidder; trustees (for three years), Stephen M. Weld, Ernest B. Dane, Edwin S. Webster and Andrew W. Preston; nominating committee, Marcellus A. Patten, William Sim, Nathaniel T. Kidder, John K. M. L. Farquhar and William Downs.

In accordance with the by-laws two weeks are allowed for further nominations should any be desired.

WM. P. RICH, Secy.

SEWICKLEY HORTICULTURAL SOCIETY.

At the monthly meeting of the society on Tuesday, Oct. 10, some fine dahlia exhibits were on hand from R. Taylor, T. Sturgis, J. Carman, H. Rapp, G. Wessenane and M. Curran, which brought forth an interesting discussion on this favorite flower. A vote of thanks was accorded all the exhibitors. The September vegetable and flower show of Sept. 22 and 23 has voted a complete success. Arrangements were completed for the Chrysanthemum Show on Nov. 2, 3, 4 and 5. The classes for private gar-

deners are confined to Allegheny County, but the commercial classes are open. Schedules may be had from the secretary, M. Curran, Sewickley, Pa. The ladies of the Allegheny Co. Garden Club are giving us able assistance and a good show is looked for.

M. CURRAN, Secy.

AMERICAN ROSE SOCIETY.

A meeting of the executive committee was held in New York City on Monday, Oct. 23, present S. S. Pennock, W. R. Pierson, Harry O. May, J. Horace McFarland, L. J. Reuter, Fred A. Howard and Admiral Aaron Ward. Secretary Hammond is absent in Canada. The principal business discussed was the time and place for the next exhibition and a number of committees were appointed. Mr. Howard gave some very interesting information concerning the rose gardens of the Pacific Coast, where the plants make two sets of foliage yearly with resting periods and withholding of water. A committee was appointed to collect a guarantee fund in case the Rose Society should decide to hold a show in Philadelphia and a substantial sum for that fund was subscribed on the spot. The next meeting will be on Wednesday, Nov. 8, in Philadelphia.

FLORISTS' CLUB OF HARTFORD.

The florists of Hartford, Conn., added one more to the lengthening list of florists' clubs, at a meeting held at the City Club on Tuesday evening, October 17. It was an inspiring and enthusiastic meeting participated in by about twenty of the leading florists of Hartford. Meetings will be held every six weeks. Officers were chosen as follows:

President—Joseph Coombs; Vice-President—Joseph McManus; Treasurer—Wallace Thomson; Secretary—Alfred Dixon.

Executive committee—the officers and Andrew Welch, George G. McClunie and Eugene S. Drake.

CLUB AND SOCIETY NOTES.

At the annual exhibition of the Worcester County (Mass.) Horticultural Society, last week, Lucy M. Coulson received a silver medal for superior cultivation of tuberous begonias.

The Associated Retail Florists of New York held their monthly meeting at Young & Nugent's, store, on Tuesday evening, Oct. 17. The annual election of officers will be held on Tuesday, November 21.

A floral art and novelty display will be held in the grand ball room of the Hotel La Salle on Sunday afternoon and evening, Nov. 12th, 1916, under the auspices of the Chicago Florists' Club. Admittance by invitation.

The annual chrysanthemum festivities start off with the show at Lenox, Mass., on Thursday and Friday of this week. A big feature of the exhibition in addition to a splendid display of chrysanthemums is the orchid exhibit by A. N. Cooley of Pittsfield.

Obituary

John S. Brown.

John Skelton Brown, aged 83, for years engaged in nursery business in Rochester, N. Y., died Thursday afternoon, October 19, at his home, in Browncroft just outside of Rochester. He was born in Boston, Mass., but came to Rochester seventy-three years ago. He leaves one son, one daughter and four grandchildren.

John K. Vosburgh.

John K. Vosburgh, aged 33 years, manager of the vegetable department at the seed store of J. M. Thorburn & Co., New York, died at the City Hospital, Newark, N. J., on Tuesday, Oct. 10, as the result of injuries sustained in a fall on the stairs at Park Place, Newark, the previous evening while on his way home from the store. Floral tributes from the firm and his fellow employees, testified to the esteem in which Mr. Vosburgh was held. He was the sole support of a widowed mother.

George L. Huscroft

It was with sincere grief that friends and acquaintances have received news of the death of George L. Huscroft, the well-known Steubenville, Ohio, florist, last Saturday. A number went over from Pittsburgh where Mr. Huscroft had many warm friends, for the funeral services on Monday. Mr. Huscroft's death was the direct result of a rapid series of paralytic strokes, resulting from a tumor at the base of the brain. He was 54 years of age and a native of Steubenville, where he had been prominently identified throughout his adult life.

E. E. Rexford.

Eben E. Rexford, Wisconsin poet and voluminous writer on flower and garden topics, died of typhoid fever at Green Bay, Wisconsin on Wednesday, Oct. 19, aged 68 years. Mr. Rexford began to write for the press at the early age of fourteen and had continued all his life in literary work. He had contributed stories, poems and articles to nearly all the leading magazines of the country. He wrote much regarding flowers and their culture, his productions including "Home Floriculture," "Grandmother's Garden," "Flowers: How to Grow Them," "Four Seasons in a Garden," "The Home Garden," "Indoor Gardening," "Amateur Gardencraft" and "Pansies and Rosemary," (poems). Among the numerous poems written by Mr. Rexford, probably his verses, "Silver Threads Among the Gold" have been the best known and the most widely used. He was educated at Lawrence University, Appleton, Wis., from which in 1908, he received the degree of Doctor of Literature.

THE EXHIBITIONS

BOSTON AUTUMN FLOWER SHOW.

The autumn exhibition of the Massachusetts Horticultural Society will be held at Horticultural Hall, Boston, Wednesday to Sunday, November 1 to 5 inclusive. While chrysanthemums will be the chief feature of this show there will be fine exhibits of flowering and foliage plants from private estates in the vicinity of Boston and from commercial growers in this and other states. The schedule of prizes includes also exhibits of fruits and vegetables. The Bostonia Ladies' Orchestra will furnish music every afternoon and evening from 3 to 5 and 7.30 to 9.30 o'clock.

The commercial growers and florists of Boston and vicinity will find it to their advantage to be represented at this exhibition and their cooperation is requested in order that the show may maintain Boston's prestige in horticultural matters. The admission fee to this exhibition will be fifty cents but tickets to the trade will be sold in lots of twenty-five or more at twenty cents each.

JAMES WHEELER.

Chairman Com. on Prizes and Exhibitions.

IOWA AUTUMN FLOWER SHOW

The Department of Horticulture of the Iowa State College has announced an Autumn Flower Show, which will be held Friday and Saturday, November 10th and 11th.

In connection with the show a special effort is being made to further the floricultural interests of the state. The flower show of the present day is recognized as an influential means of educating people to use more flowers, and it is the aim of the college to stimulate the interest of the people of Iowa by an attractive exhibition.

It is expected that the flower show will have a far-reaching effect since it will be visited not only by the 5000 students who come from all over the state, but by the florists and people about the state, as well as by the townspeople.

The florists about the state are co-operating with the college. Nineteen competitive classes, which are only open to the commercial florists of Iowa, have been provided. Entries in the various classes are now being made. The various exhibits will be judged and awards made by a committee of judges.

In addition to the exhibit of the commercial florists the college will have a large exhibition of chrysanthemums, including many specimen plants and single stem flowers, which will be of interest both to the florists and the public. Several attractive features are to be introduced and some student competitions in floral decoration are being arranged.

A. S. THURSTON.

Coming Exhibitions

Oct. 27-29, Mount Kisco, N. Y.—Fall show of the Northern Westchester County Hort. and Agr. Soc.

Oct. 31-Nov. 1, Greenwich, Conn.—Fall Flower, Fruit and Vegetable Show of the Westchester and Fairfield Horticultural Society.

Nov. 1-5, Boston.—Grand Autumn Exhibition of Plants, Flowers, Fruits and Vegetables, Massachusetts Horticultural Society, Horticultural Hall.

Nov. 1 to 3, Tarrytown, N. Y.—Chrysanthemum show of the Tarrytown Hort. Soc. in Music Hall.

Nov. 2-3, New Bedford, Mass.—New Bedford Horticultural Society, Annual Chrysanthemum Show.

Nov. 8, Philadelphia.—Chrysanthemum Society of America in conjunction with Pennsylvania Horticultural Society.

Nov. 8-10, New York.—Annual Chrysanthemum show of the American Institute, Engineering Society Bldg., 25-33 W. 39th St., New York.

Nov. 9-10, Bloomington, Ill.—Fall Flower Festival, Illinois State Florists' Association.

Nov. 9-11, Lancaster, Pa.—Fall flower show.

Nov. 9-12, New York.—Fall exhibit Horticultural Society of New York at Museum of Natural History.

Nov. 10-12, Cleveland, O.—Second Annual Flower Show, Hotel Hollenden.

Nov. 11-19, New Orleans, La.—Flower show.

Nov. 14-15, Providence, R. I.—Flower show of R. I. Hort. Soc.

HORTICULTURAL SOCIETY OF NEW YORK

It is only a short time now to the Fall Exhibition of this society, which will be held at the American Museum of Natural History, November 9 to 12. Do not forget to make your entries early, thus enabling the manager to make a better display and the secretary to have things in such shape that the manager may work intelligently. Everything points to a large show. Prizes are offered for bush chrysanthemum plants, and other prizes for cut chrysanthemum blooms of all kinds, both for commercial and non-commercial growers. Prizes are also offered for roses and carnations, and for orchid plants and flowers.

The Society's Silver Cup, valued at \$100 is offered as part of the first prize for a group of greenhouse foliage and flowering plants and in addition a cash prize of \$50. Prizes are also provided for bay trees, collections of conifers, begonias, palms and ferns.

Schedules are now ready for distribution, and will be sent on application to the secretary, George V. Nash, Mansion, New York Botanical Garden, Bronx Park, N. Y. City.

GEORGE V. NASH, Sec.

SECOND ANNUAL CLEVELAND FLOWER SHOW.

Two new classes have been added to the Premium List, one of which ought to prove interesting to non-commercial growers and the other to specialists in American Beauties. The new classes read as follows:

- | | | | |
|--|------|------|------|
| No. 1. Group of orchid plants in variety, to cover not over 25 sq. ft.—3'x8'—accessories and greens allowed..... | \$50 | \$25 | \$10 |
| No. 2. Vase 50 blooms American Beauties arranged for effect | 50 | 30 | 20 |

The committee is working on another feature that will prove interesting to the Cleveland public and that is decorated tables arranged by private gardeners or the owners of private greenhouses. This feature has never been developed in Cleveland before. The committees have a few entries at this time and think that a large number of the members of the Ladies' Garden Club of Cleveland and the Ohio Horticultural Society will compete. These tables will be featured on Saturday, Nov. 11.

Frank A. Friedley, chairman of the Show Committee, has mailed a letter to all exhibitors, urging them to send in their entries early so that the committee will show how many exhibits they will have to plan on staging.

CHICAGO TO BLOOMINGTON.

The Fall Flower Show of the Illinois State Florists' Association will be held at the Coliseum, Bloomington, November 9-10. Treasurer Frank L. Washburn of the state organization advises that the Chicago & Alton gives the best service between that city and Chicago. The train schedule from Chicago to Bloomington is as follows:

Leave	Due
Chicago 9.00 A. M.	Bloomington 12.55 P. M.
Chicago 10.15 A. M.	Bloomington 1.20 P. M.
Chicago 12.01 P. M.	Bloomington 3.15 P. M.
Chicago 1.15 P. M.	Bloomington 5.15 P. M.
Chicago 6.30 P. M.	Bloomington 9.40 P. M.
Chicago 9.00 P. M.	Bloomington 12.55 A. M.
Chicago 10.20 P. M.	Bloomington 1.10 A. M.

The fare from Chicago to Bloomington is \$2.54, round trip \$5.08. This is the flat two-cent rate and there is no party or other reduced rate between these points. The train leaving the Union station at 10.15 A. M., Thursday, November 9, has been selected for the Chicago delegation and it is hoped our city and club will be well represented, the Bloomington show being the only one of importance in the state this year.

The regular meeting of the Chicago Florists' Club has been postponed to November 16, especially to permit members to attend the Bloomington exhibition and meeting of the state association.

Luncheon will be served at Bloomington, Thursday evening, November 9, at seven P. M.

MICHAEL BARKER,
Chairman Transportation Com.,
Chicago Florists' Club.

BULBS and BOXWOOD at AUCTION

MAMMOTH SHIPMENTS OFFERED EACH

TUESDAY and FRIDAY

AT TEN O'CLOCK, A. M.

ALSO LOCAL CONSIGNMENTS OF

Palms, Ferns, Dracaenas, Rubbers, etc., to be offered in lots to suit the large and small buyer

Send for weekly auction catalogue.

The MacNiff Horticultural Co.

52 to 56 Vesey Street, NEW YORK

THE LARGEST HORTICULTURAL SALESROOMS IN THE WORLD

TREES

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties. Sturdy, choice stock that can be depended upon. Send for catalog and special trade prices.

The Bay State Nurseries

North Abington
Mass.

SHRUBS

This New England soil and climate produces fine, sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate.

BAILEY'S NEW STANDARD Cyclopedia of Horticulture

Six large quarto volumes. More than 3,600 pages. 24 exquisite full-page color plates. 96 full-page sepia halftones and more than 4,000 text engravings. 500 collaborators. Approximately 4,000 genera, 15,000 species and 40,000 plant names.

The new Standard Cyclopedia of Horticulture has been freshly written in the light of the most recent research and experience. It is not merely an ordinary revision or corrected edition of the old Cyclopedia, but it is a new work from start to finish with enlarged boundaries geographically and practically; it supersedes and displaces all previous editions or reprints of every kind whatsoever. It is both an Encyclopedia and a Manual, for with the aid of its Synopsis and Key, amateur and professional alike may quickly identify any plant, shrub or fruit contained within the set, and then receive expert instructions for its cultivation. Price \$6.00 per volume. Five volumes have now been issued and the others will follow in succession. Order from

HORTICULTURE PUBLISHING CO.

147 Summer Street, Boston, Mass.

REMEMBER!

If it's a Hardy Perennial or so called Old Fashion Flower worth growing, we have it in one shape and another the year round. We have the largest stock in this country, all made in America, and our prices

will average 75c. per doz., \$5.50 per 100.

Why say more here? Send for our Wholesale Price List of varieties and benefit from the opportunities this affords you. Address

PALISADES NURSERIES, Inc.

R. W. CLUCAS, Manager.

SPARKILL - - - N. Y.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. F. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St. Woburn Heights P. O. No. 1, Woburn N. J.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY. Small, medium and large sizes supplied. Price list now ready.

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers in America.

BOX 415, DUNDEE, ILL.

When writing to advertisers kindly mention HORTICULTURE.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

HATBORO, PA.

In Stock ROSE STAKES

EXTRA STIFF No. 9 GALV. WIRE

4½ feet—\$13.05 per 1000

CARNATION SUPPORTS

\$18.00 per 1000 plants.

THE CARNATION SUPPORT CO., Chambersville, Ind.

ROBERT CRAIG CO. ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

HYDRANGEA OTAKSA & AVALANCHE

Field grown plants, ready for 6-inch pots; \$14.00 per 100.

ANGLIN & WALSH CO.

W. Liamsbridge, N. Y.

BOBBINK & ATKINS

Nurserymen, Florists
and Planters

RUTHERFORD, NEW JERSEY

BULBS BOXWOODS AT AUCTION

Do Not Forget Salesdays — Monday and Thursday
Consignments Solicited

JOHNSON & MILLANG, Inc., Auctioneers

Coogan Building, 55-57 West 26th Street, New York

(Under Cut Flower Exchange)

Salesdays Monday and Thursday at 10 A. M.

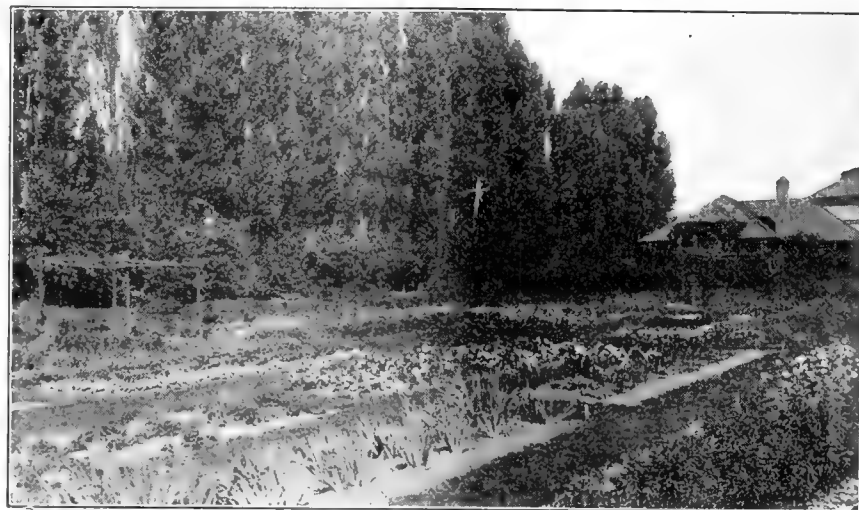
10,000 square feet devoted to our auction business

WRITE FOR CATALOGUE

NOTES FROM CORNELL UNIVERSITY.

During the past summer one hundred students were receiving instruction in the Department of Floriculture, with an additional fifty enrolled for the work in the six weeks' summer session. Special emphasis is laid on the course in garden flowers during the summer, since this is an excellent time for the study and identification of garden material. For the most part the material for study is grown in the Student Garden, supplemented by material from the trial grounds at Craig Field.

The Student Garden (so-called because it is planted and cared for almost entirely by students), is a plot 96 by 160 feet, running approximately north and south. It is divided into a series of rectangular beds with grass walks, surrounded by a border 12 ft. in width. The site was originally a dumping ground for the rubbish left after the construction of the main building of the College of Agriculture, as is indicated by the boulders, stones, bricks, slate, etc. which are altogether too frequently unearthed by zealous students. The soil used for covering the dump is a heavy clay and, for that reason, is not very desirable from a garden standpoint; nevertheless, on the whole very good results have been obtained with both annuals and perennials. The garden was first laid out in 1914 by A. C. Hottes (now Assistant Professor of Floriculture at Ohio State University) but was replanned in 1915 by Profes-



Partial View of the Student Garden, Department of Floriculture, Cornell University.

sor David Lumsden. Plans for still further revision are under way. Among other changes, these call for a shrub border, forming not only a real garden retreat, but also providing the proper background for showing the flowers to the best advantage. It is intended that this shall be chiefly a garden of perennials, supplemented to a slight extent by annuals where it is necessary to tide over one season of bloom to another.

In addition to the plants grown in the garden, there are also available for study the large collection of peonies, roses, phlox and iris on the departmental trial grounds at Craig Field. These collections, each having several hundred varieties, offer splendid material not only for a study of their comparative value, but also for their adaptability as regards soil and climate conditions in this section.

MASSACHUSETTS AGRICULTURAL COLLEGE NOTES.

The annual flower show of the Department of Floriculture will be held November 11th, 12th, 13th. Several new features will be introduced this year. An exhibit of flowers behind picture frames will occupy one section of the show. At each end of the hall of the first floor will be constructed a pergola as the axial features instead of the massing of palms which was very effective last year. It is the aim to make the whole show approach the appearance of a beautiful garden. Water features also are to be introduced where possible.

The competition for best arranged baskets will be open to seniors and fourteen entries are expected. There is also to be the regular competition open to juniors for the best arranged table decorations. More practice work than ever has been given the classes this year, and some excellent work is expected from the students. Professor Nehrling has been working on the show plans and stimulating interest for the last four or five months, and his work is already showing gratifying results.

At the Northampton and Holyoke Gardeners' and Florists' Club Show, November 1 and 2, a special class has been arranged open to students at the college, for the best flower baskets. The entire senior classes are entered and the competition will be very keen.

The state investigation commission visited the greenhouses during the past week and were well satisfied with the amount of practical work being given the students.

A meeting of the Florists' and Gardeners' Club of M. A. C. was held Thursday evening. A discussion of summer experiences was held.



Delphiniums in the Student Garden, Department of Floriculture, Cornell University.

The Exhibitions

ST. LOUIS SPRING FLOWER SHOW.

The Preliminary Premium List of the St. Louis Flower Show to be held under the auspices of the St. Louis Flower Show Association, Inc., on March 15 to 18, 1917, has been sent out. The classes common to most spring shows are well covered in the list, which is divided into two sections—commercial and private growers, but the prize amounts are not yet scheduled. We note with approval the inclusion of groups "staged for effect" of most of the subjects listed, with optional use of accessories and other plants or flowers as auxiliaries, this particularly in the "commercial" section. Nothing is yet mentioned in the way of decorative work, bridal arrangements, tables, mantels, etc., but no doubt these features will yet be added. The listing of a large number of classes for "specimen" this and that all through the plant schedule is noted. There seems to be a disposition in most large shows at the present day to minimize this sort of competition in exhibitions dependent for success upon public enthusiasm and support, but we presume the St. Louis people who are back of this ambitious project know what they are doing and have the best of reasons for the methods adopted to ensure success.

CHRYSANTHEMUM SOCIETY OF AMERICA

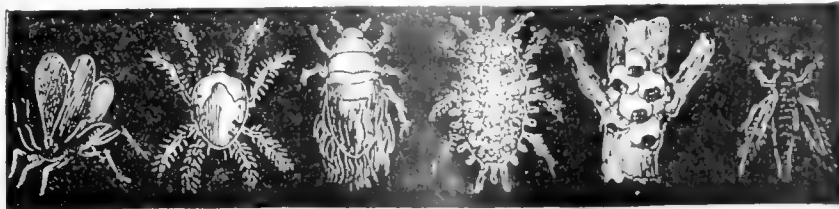
The Chrysanthemum Society of America examining committees will be at the following shows to examine new chrysanthemums for C. S. A. certificates. Not less than six blooms of each variety to be shown and these only such as have been given the second year's trial. All sports of existing varieties must be submitted to three of five committees, the average of three scores to regulate title to certificate. The fee of \$2.00 for each variety submitted should be sent to the secretary previous to the exhibitions.

C. S. A. Annual Exhibition, Philadelphia, Wednesday, Nov. 8th. Ship

Hammond's Thrip Juice No. 2

REGISTERED

A Contact Insecticide, Useful and Reliable, Used for 30 Years in Greenhouses, and on Plants, Grape Vines, Trees and Shrubs



Some common Sucking Insects, magnified.

HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.

flowers to A. B. Cartledge, chairman, care of David Rust, secretary Penna. Horticultural Society, Horticultural Hall, Broad street, below Locust, Philadelphia.

Cleveland Flower Show, Cleveland, Ohio, Nov. 10th. Ship flowers to Frank A. Friedley, chairman, Hollenden Hotel, Cleveland, Ohio.

Illinois State Florists' Association Floral Festival, Bloomington, Ill., Thursday, November 9th. Ship flowers to C. W. Johnson, care of Washburn & Sons, Bloomington, Ill.

Chicago Florists' Club Chrysanthemum Novelty Night. Date and place of meeting to be announced later.

An additional special prize has been offered for the annual exhibition to be held in Philadelphia, Pa., on Wednesday, November 8th, for the best collection of American-raised seedling chrysanthemums, not disseminated, one bloom each, not less than twenty varieties on short stems—1st prize \$15, 2nd \$10, offered by Wm. K. Harris, Philadelphia, Pa.

The schedule of premiums has been mailed to all C. S. A. members. Anyone else desiring a schedule can have one by applying to David Rust, Secretary, Pennsylvania Horticultural Society, Horticultural Hall, Philadelphia, Pa.

CHAS. W. JOHNSON, Secy.

DURING RECESS.

Boston Florists' Bowling.

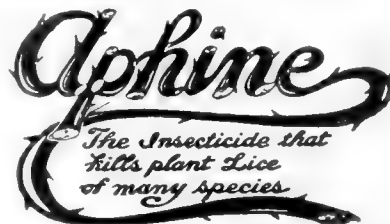
On Thursday, Oct. 19, the first games of the season were played on the Arch Street Alleys with the following results:

Penn	368	388	392	1148
Carbone	394	414	393	1201
Flower Exchange	415	419	448	1282
N. E.	417	400	397	1214
Snyder	382	365	384	1131
Robinson	396	389	371	1156
Galvin	416	407	437	1260
Flower Market	428	418	413	1259

The standing of the various teams up to date is as follows:

	W	L		W	L
Carbone	3	1	Penn	1	3
Flower Ex.	3	1	N. E.	1	3
Robinson	3	1	Snyder	1	3
Flower Mkt.	3	1	Galvin	1	3

A few of the St. Louis boys will give a dance to their friends on Dec. 6, at Westminster Hall. Will C. Smith of the Smith Wholesale Floral Co., stands good for the rental of the hall and expects success socially and financially. Paddy Patton the humorist will give some of his special songs and dances.



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.
Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

Whys and Wherefores of Fall Spraying

is the title of a little booklet, giving seven reasons, official and non-official, why it is the best time to spray. This booklet will be sent out by the B. G. Pratt Co., 50 Church St., New York, manufacturers of the well-known "SCALE CHIEF" at a very early date. If you are not on their mailing list, send them a postal today giving the number of your trees and your dealer's name and you will receive a copy free. Address Dept.



IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON



NIKOTEEN
For Spraying
APHIS PUNK
For Fumigating
Ask Your Dealer For It.
NICOTINE MFG. CO.
ST. LOUIS

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending October 13, were recorded as follows:

Bulbs—France, \$6,325; Netherlands, \$117,945; England, \$289; Hongkong, \$473; Japan, 18,660.

Plants—Netherlands, \$2,920; England, \$3,707; Panama, \$60; Venezuela, \$481.

Red clover seed—France, \$4,950.

Clover seed—France, \$6,311; Canada, \$4,499.

Grass seed—Denmark, \$31,719.

Other seeds—France, \$11,276; England, \$3,356; Argentine, \$6,048; British East Indies, \$663; Japan, \$4; Mexico, \$1,170.

Nitrate of potash—England, \$81,635.

Other fertilizers—Scotland, \$384; Argentine, \$1,833.

GREATNESS ACHIEVED.

"Some men are born great, some achieve greatness and some have greatness thrust upon them."

Mr. Shakespeare undoubtedly was thinking of none other than W. F. Therkildson, advertising manager for the W. Atlee Burpee Co., when he penned those immortal words.

It is hard to believe—but it is true—that one man could achieve the greatness in five days that fell the lot of W. F. Therkildson. This is what happened to him between Friday, the 13th of October, and Wednesday, the 18th.

First of all, he was unanimously elected secretary of the Poor Richard Club, the organization that has taken the lead in Philadelphia clubdom since it put over the convention of the Associated Advertising Clubs of the World last June.

Then he was elected a director of the Ohio Society of Philadelphia, an organization of high type Philadelphians who were born in or lived in the Buckeye State for a long while.

Then he was elected a trustee of the Philadelphia Salesmanship Club, a new organization whose membership will be 2,000 before Christmas.

Then he was chosen to sit with a group of 40 of the city's leaders to consider plans for advertising Philadelphia and from that group of 40 he was chosen to be one of seven men to consider plans for holding a World's Fair in 1926 to mark the sesqui-centennial of the signing of the Declaration of Independence.

Then he was called in by the Pennsylvania Horticultural Society to help stage the Chrysanthemum Show on Nov. 7.

SHAMROCK TRUE IRISH

Trade packet 25 cts., oz. \$1, ¼ lb. \$3, lb. \$10

5% Discount, Cash with Order.

ARTHUR T. BODDINGTON CO., Inc.
128 Chambers Street, New York



SEEDS for the FLORIST

ASTERS QUEEN of the MARKET.

The best extra early variety, large, double flowers, on long stems, in colors: Crimson, Dark Blue, Light Blue, Rose Peach Blossom, White.

Trade Packet, 20c., Oz., 75c.

Sweet Peas, Cyclamen, Primulas, Lily of the Valley, from Our Own Cold Storage Plant.

Our Trade List Mailed on Application.

FOTTLER, FISKE, RAWSON CO., THE SEED STORE BOSTON
Faneuil Hall Square

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes
Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of
Commerce Bldg., Boston, Mass.

And still he has time to help to sell the products of the world's largest mail-order seed house.

JOHN B. GERAGHTY.

PUBLICATIONS RECEIVED.

The Forty-Seventh Annual Report of the West Chicago Park Commissioners, for the year ending December 31, 1915, is an attractive volume of 212 pages abundantly embellished with full-page engravings devoted largely to depicting the various features of the parks, playgrounds, gymnasiums, etc., for the children's amusement and education. It is an impressive presentation of the manifold uses of public reservations in a great city. The total areas under the jurisdiction of the West Chicago Park Commissioners is approximately 813 acres of parks and 445 acres of boulevard. The total length of boulevards is 29½ miles.

"Pruning Shade Trees" is a very timely and useful bulletin issued by the Agricultural Experiment Station at Columbia, Missouri, as Circular 81. H. F. Major is the author. There are cuts showing the right and the wrong way.

CATALOGUE RECEIVED.

King Construction Co., North Tonawanda, N. Y.—Illustrated booklet on "Some Seasonable Subjects."

Bird lovers will be glad to read the report that a treaty for the protection of insect-destroying birds on both sides of the Canadian boundary has been entered into between the United States and Great Britain. Its administration will be left to local authorities. It is said that this is the first treaty of its kind.

NEW CORPORATIONS.

Homestead, Fla.—Dade County Nurseries, capital stock, \$25,000. Incorporators, A. A. Thompson, D. M. Roberts and Hiram Byrd.

Los Angeles, Cal.—Staiger & Finken Nursery Co., capital stock, \$20,000. Incorporators, Paul G. Staiger, John Finken and Thomas Wolfe.

BUSINESS TROUBLES.

Westbury, N. Y.—Westbury Nursery Co., voluntary bankruptcy.

Syracuse, N. Y.—Chester A. Harris, florist, 203 E. Genesee St., liabilities, \$4,000.

Boston, Mass.—Anthony Lahoud, gardener, has been petitioned into bankruptcy by four creditors whose claims aggregate \$719.

NEWS NOTES.

Forest City, Ia.—A. G. Larson has purchased the Secor greenhouses.

Ithaca, N. Y.—Ralph J. Roskelly has purchased the business of the Bool Floral Co.

Bristol, Tenn.—The Bristol Floral Company has increased its capital stock to \$25,000.

Eureka, Cal.—C. W. Ward has purchased the greenhouse range of Bauer & Waggoner.

West Berkeley, Cal.—The Gill Nursery Company has bought five greenhouses from the John Spring Estate and will remove them to their place.

Ardisia crenulata was listed as a "new plant" in 1858.

Lilium Harrisii Bulbs

	Per 100	Per 1000
5 in. to 7 in.	\$4.50	\$36.00
7 in. to 9 in.	8.00	72.00

**PAPER WHITE NARCISSUS
GRANDIFLORUS**

Prices on Application

WE OFFER to FLORISTS a
CHOICE SELECTION of HYA-
CINTHS, TULIPS, Etc. Etc., for
forcing or outdoor planting.

Send us a list of your require-
ments and we will give you at-
tractive special prices.

J. M. THORBURN & CO.

53 Barclay Street
Through to 54 Park Place
NEW YORK CITY

KELWAY & SON

SPECIALIZE IN

SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or
Forward

Only Address, LANGPORT, Eng

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragons on
the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.

PHILADELPHIA, PA.

My new Price List of
WINTER-ORCHID-FLOWERING SWEET
PEA SEED

Has been mailed. If you have not received
a copy, send me postal. Part of new crop
will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

**FARQUHAR'S GOLD MEDAL
CYCLAMEN**

Awarded Gold Medal of
the Massachusetts
Horticultural Society

Strong Plants from
4 inch pots, for
delivery now, at
\$25.00 per 100.

R. & J. FARQUHAR & CO., 6 South Market Street
BOSTON

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.**LILIUM GIGANTEUM**

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

NEW CROP SEEDS

PANSY SEED. Giant flowering florist mix-
ture. American grown. (Best money can
buy.) 50c. per tr. pkt., ¼ oz. \$1.50, oz. \$5.00.
PANSY SEED SPECIAL. Greenhouse mix-
ture for forcing; long-stemmed. \$1.00 per
tr. pkt., ¼ oz. \$1.50, ¼ oz. \$2.50; oz. \$8.00.
SWEET PEAS. Zvolanek's Orchid Flower-
ing in all varieties. I have his agency
this season.

ROMAN J. IRWIN,
Plants, Cuttings, Bulbs, Seeds.
108 West 28th Street - New York.

THOMAS J. GREY COMPANYSEEDS, BULBS AND IMPLEMENTS
WHOLESALE AND RETAIL.

Reselected Strains in Seeds.

Improved styles in Implements.
Catalogue upon application.

29 So. Market street
BOSTON, MASS

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

SEEDS, BULBS, PLANTS

AND

Florists' Necessities

AMERICAN BULB CO.

172 N. Wabash Ave., Chicago, Ill.

**LILIUM FORMOSUM
LILIUM HARRISII
LILIUM GIGANTEUM**

Prices on Application. Write for 1916
Bulb Catalog.

JOSEPH BRECK & SONS' CORP.
47-51 North Market St., Boston, Mass.

W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries

166 W. 23rd St., NEW YORK

Mitchell's Distinctive Seeds
Catalogue free
518 Market St. - Phila.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Calling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

Penn. The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.

BOSTON

FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

MAX SCHLING

22 West 59th St.

Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, New York

Telephone 1543-1544 Columbus

Of Interest to Retail Florists

NEW FLOWER STORES

Hagerstown, Md.—M. I. Brewer.

Flint, Mich.—Hasselbring, florist.

Visalia, Calif.—Peter Perkins,
Court St.

Paterson, N. J.—A. Glerum, 351 Sum-
mer street.

Chicago, Ill.—P. F. Dewinck, 5740
Ridge Ave.

Harrisburg, Pa. Cumberland Flower
Shop, 809 N. Third St.

Atlantic City, N. J.—Mrs. Genshei-
mer, 2608 Atlantic Ave.

Ithaca, N. Y.—Ralph J. Roskelly,
succeeding Bool Floral Co.

Allentown, Pa.—Ernest Ashley, re-
moving to 1012 Hamilton St.

Providence, R. I.—T. J. Johnston &
Co., Weybosset St., removing to
Washington St.

Philadelphia, Pa.—Walter L. Sa-
bers, 3607 Germantown Ave. Por-
zyees Floral Co., 15th and Chestnut
Sts.

New York, N. Y.—Macres Bros.,
2251 Broadway, successors to Colonial
Flower Shop. Andrew Eckrich, 924
Madison Ave., succeeding the late
Chas. E. Grunewald.

FLORISTS' TELEGRAPH DELIVERY ASSOCIATION.

Following is a summary of the state-
ment of the treasurer, W. L. Rock, of
the financial condition of the Florists'
Telegraph Delivery Association, pre-
sented at the recent meeting in Chi-
cago:

RECEIPTS.

Members' initiation fees	\$ 1,665.00
Annual dues	5,503.70
Guarantee fund	5,129.00
Interest, etc.	124.12

Total \$12,421.82

DISBURSEMENTS.

From guarantee fund	\$ 76.41
From general fund	5,008.44

Total \$5,084.85

BALANCES.

Guarantee fund	\$ 5,352.59
General fund	1,983.88

Total \$7,336.47

INVESTMENTS.

Santa Fe R. R. bonds	\$ 2,310.00
In bank	1,026.47

\$ 3,336.47

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspond-
ence in all the large cities of Europe and the British
Colonies. Telegraph and Cable address, Dardsflor

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good
sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery
Association.



GUDE BROS CO
1214 F ST NW
WASHINGTON DC

GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE National Capital

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

J. B. KELLER SONS,
FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2/86
Members Florists Telegraph Delivery

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD
NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction

MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1836 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO

Flowers of Every Kind in Season

HESS & SWOBODA

FLORISTS
Telephones 1841 and L 1832.
1415 Farnum St.,

OMAHA, NEB.

S. A. ANDERSON

440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS

For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.

WORCESTER, MASS.

Randall's Flower Shop

HARRY L. RANDALL, Proprietor.

Member Florists Telegraph Delivery Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State
St.

Albany, N. Y.—The Rosery, 23 Steuben
St.

Albany, N. Y.—William C. Gloeckner, 97
State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont
St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Fettes Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

New London, Conn.—Reuter's.

New York—J. H. Small & Sons, 505 Mad-
ison Ave., at 52d St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

REUTER'S Members Florists Telegraph Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER

4326-28 Olive St.

Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of

TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP

8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES

Flowers or Design Work

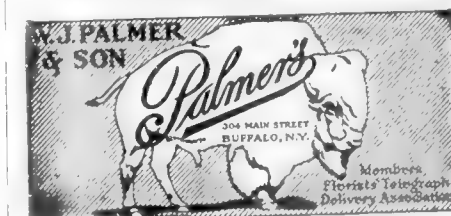
DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.



KERR ORDERS FOR TEXAS

HOUSTON, TEXAS
Member F. T. D. Association

The Florist

NEWS ITEMS FROM EVERYWHERE

PITTSBURGH.

Albert A. Berlin, formerly of Baltimore, is an addition to the sales staff of the McCallum Floral Co.

O. C. Parker and family, have returned from an extended sojourn at Prout's Neck on the coast of Maine.

Miss Margaret Burns, a saleswoman for the A. W. Smith Company, has returned from spending a fortnight at Fairmount and Elkins, W. Va.

The Ludwig Floral Company has just completed four greenhouses for roses and carnations, aggregating 30,000 feet at the Castle Shannon plant.

Mr. and Mrs. De Forest W. Ludwig have gone to Los Angeles, Cal., where they will spend the winter. Mrs. Ludwig was formerly Miss Irene Collins of Meyersdale, Pa., where the wedding took place on Oct. 12 in the Methodist Episcopal Church. Both the church and the Collins home were lavishly decorated with yellow chrysanthemums, lillies and American Beauty roses.

Owing to the untimely absence of the correspondent of HORTICULTURE from the city the splendid Dahlia Show of Kaufmann's Floral Department under the management of Ray J. Daschbach, was unnoted at the time. Seven large display windows were utilized for the purpose, each containing a shadow box with a large basket of gorgeous blooms. At the same time, 60,000 catalogues were distributed. The purpose of the exhibition was to permit customers of the firm to select with discrimination their bulbs for next spring's planting. The varieties were all labeled and thousands of dollars' worth were paid for in advance, which will be delivered next May. Adolph Kneppers, who has been Mr. Daschbach's first assistant since the opening of the department last spring, has returned to his former position with George L. Huscroft of Steubenville, Ohio.

CHICAGO.

Walter Amling, son of the well known grower, Wm. H. Amling, of Maywood, Ill., was married Oct. 26, at Holgate, Ohio.

John Poehlmann is again back at his office, making regular time for the first, since his father's long illness, during which he overtaxed himself.

A special sale of ferns, palms and decorative plants is given this week by one of the department stores in which thousands of plants will be sold at a small fraction of profit.

Property is being rapidly bought up at Lake Forest, the popular north shore town where many of Chicago's millionaires have their summer homes, and where the landscape gar-

dening is carried to a high degree of effectiveness.

Quite a number of the large retailers are getting chrysanthemums from California as is also an occasional commission house. It is said that this stock can be sold at prices that the home grower will find it hard to compete with, being grown out of doors and cared for largely by foreign labor.

The first azaleas to reach Chicago this year came in on Monday, Oct. 23, when 98 cases were received by Frank Oechslein. This allays the fear that these plants would not arrive this year. It is said by eastern importers to be the first shipment of the season from Belgium. Others are on the way, however.

The J. C. Moninger Co. is very busy getting out orders for greenhouses. Among them is a 56 x 250 ft. "bolted through the pipe" frame house for Wiedemann Floral Co. of Wilsonville, Oregon; another 42 x 200 for J. J. Fallon, Lynchburg, Va.; and two 28 x 100 for Harry E. Saier, Lansing, Mich., with steel frame service shed 28 x 40 ft. Three of the University of Chicago greenhouses are being extended by this company to meet the increased demand for the horticultural course.

The rock gardens are few in Chicago but their popularity is growing.



Section of Rock Garden at Frank Oechslein's

The dead level of this city makes these gardens appeal to the owner of a lot large enough to hold even a small one, and the height and depth of the miniature caves, the tall shrubs at the back, the overhanging vines and the falling water finding its way to the lily pond at the base, all give a variety which even a beautiful lawn and flower beds often need. The cut shows a section of the one just made on the grounds at Frank Oechslein's new residence.

Philadelphia. Commodore Westcott went to Waretown on the 21st inst. This will probably be the last trip of the season as the bungalow is usually closed about this time each year and the old homestead—half a mile inland—is used for winter quarters. Next week he goes to Long Island to visit his old friend, James Dean, for a few days.

BOSTON.

James Ward, of Peabody, pleaded guilty in the United States District Court to using the mails in a scheme to defraud the Fairfield Nurseries of Rochester, N. Y.

The Boston Record is responsible for the following witticism:

"C. Fine of the Massachusetts Ave.-Boylston St. neighborhood is not an oculist, but a florist. Still, with the delightful daily spectacles in his windows he ought to see fine, and probably does."

Miss Annie Montgomery, daughter of Alexander Montgomery of Waban Rose Conservatories, and Dr. E. G. Baum, of Natick, Mass., were married at Natick on Wednesday evening, October 25, and are now on a honeymoon auto trip through Maine.

Robert S. Peabody, landscape architect and civil engineer, was confirmed by the Civil Service Commission as a member of the Park and Recreation Department. Peabody resigned as a member of the Park and Recreation Commission a year and a half ago, and was succeeded by Charles Gibson. Gibson resigned five months ago, and Peabody, therefore, obtains his old position.

The Boston Co-operative Flower Market held its 10th annual meeting and dinner at the Quincy House on Saturday night, Oct. 21. President William H. Elliott presided. The officers elected included, treasurer, Donald Carmichael; secretary, John McFarland; directors, William H. Elliott, Norris F. Comley, Robert Montgomery, James Lester, John McFarland, Edwin Wood, Elijah Cartwright, Donald Carmichael and J. W. Simpson.

ST. LOUIS

The Episcopalians who met here in convention were entertained at Shaw's Botanical Garden last Friday.

Henry Ostertag was recently appointed police commissioner and is well qualified for any duties entrusted to him. He has always been a successful business man.

Ray Young, of Young Bros., on Waterman avenue, was married to Miss Juliette R. Meyer and has now returned from his honeymoon, prepared for the opening of fall business.

H. G. Berning, St. Louis Wholesale Cut Flower Co., C. A. Kuehn, Windler Wholesale Floral Co., Geo. H. Angermueller, Wm. C. Smith Wholesale Flower Co., are the big six of the wholesale cut flower trade of St. Louis. High grade roses, fancy chrysanthemums, carnations, orchids and American Beauties are among the specialties now in the foreground and buyers anywhere within shipping limits need seek no further for good stock and right prices.

J. H. Playdon, of Andover, Mass., the well-known florist, has returned from Nova Scotia where he has been spending a vacation.

BASKETS BASKETS BASKETS

BUY YOUR FALL SUPPLIES NOW

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Hampers and Flower Bowls

Stock up now and have the goods to show customers. Send for prices and you will be astonished to see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

NEW YORK.

Andrew Eckrich succeeds to the business of the late C. E. Grunewald at 924 Madison avenue.

An outdoor chrysanthemum exhibition is being held at the Prospect Park flower garden this week. Some of the plants reach a circumference of fourteen to seventeen feet.

The nominating committee of the N. Y. Florists' Club meets on Friday, Oct. 27 at W. F. Sheridan's. The committee on Ladies' Night met at Tradendly & Schenck's office on Tuesday.

On or about November 1 the George W. Crawbuck Co., Inc., will move from 57 W. 28th street to 47 W. 28th street, where they will have more ample room and facilities for their wholesale cut flower business.

Customers will note that Johnson & Millang have made a change in their regular sales days. This firm reports an exceptionally successful sale of locally grown and imported stock last Monday.

A. L. Miller, S. A. F. vice-president elect is already "on the job" with characteristic zeal, hustling towards making preliminary arrangements for the S. A. F. Convention next August. This includes a vigorous campaign for new members.

To better handle their increased European business R. M. Ward & Co. have established a branch at Rotterdam, Holland, with J. Henry Thomas as director. This favorable location to the fields—particularly Holland bulbs, plants and nursery stock—assures them an advantage to know crop and market conditions, to secure novelties, as also to personally inspect stock of their growers.

"I ordered some flowers sent to Miss Redbud and I'll be hanged if the florist didn't send them C. O. D."

"Phew! Did she pay for them?"

"She did, and now, deuce take it, I've got to pay her."

No evading that bill.

—*Boston Transcript.*

WHERE ORCHIDS AND GARDENIAS FLOURISH.

We had the pleasure recently of inspecting what is reputed to be the largest cattleya growing establishment in the world—that of Beechwood Heights Nursery, owned and operated by Thomas Young, Jr., at Bound Brook, N. J. That it holds the premier position accorded to it not only in orchids but in gardenias will not be questioned by any one who has had the privilege of inspection. All the way from 500 to 1,000 cattleyas have been cut daily during the height of the labiate season. Gigas, Mendelli, Trianae, and all the other desirable species are grown in almost unbelievable numbers. Then there are the rarer sorts, the Laelio-Cattleyas, Brasso-Cattleyas and unique forms beloved of orchid fanciers and these are all assembled in one large house as soon as identified. The raising of hybrids has also been under way for some time and there are myriads of pedigree seedlings in the various stages from seed pans to individual pots. A start has been made in the culture of odontoglossums for cut flowers on a commercial scale—something not easy of accomplishment in this climate but Mr. Young is a man who does not care to bother with things that are easily done.

Gardenias—there must be acres of them. House after house with the beds as uniform and vigorous as though they were simply privet plantations, big glossy foliage glistening in the sunlight and tall stems bristling with buds. There is a range of rose houses also. Among the varieties grown is Hadley, of which there are 12,000 plants.

Altogether the Beechwoods Heights greenhouses present a scene of exotic splendor and one can hardly realize that this whole estate was nothing but a cornfield up to 1907. It is a fine property, a perfectly level stretch to the range of hills, known as the Watching mountains, which dominates the landscape. The establishment is a model one in the character of the

glass ranges, the heating features, etc., which includes a big battery of modern heating outfit. The orchid houses are heated by hot water propelled by steam and the rose and gardenia ranges by steam direct.

WASHINGTON, D. C.

The business formerly conducted by the late L. A. King, in Charlottesville, Va., has been taken over by Walter H. Page and William S. Holloway.

The S. S. Pennock-Meehan Co. is showing some very excellent Teddy, Jr., ferns. The plants are very well grown, compact, and are attracting a great deal of attention.

Washington merchants are endeavoring to capture a share of the trade from nearby Maryland points and last week half a hundred men in all lines of trade participated in an automobile booster trip. Among the merchants were William F. Gude and Walter Hawley. The trip ended at Leonardtown, where a banquet was held.

An opportunity to sell American flower seeds and living plants, especially roses, pinks, and dahlias of all kinds, is announced by the Bureau of Foreign and Domestic Commerce, of the Department, under File No. 22750, reporting that a firm in Brazil informs an American consular officer of its desire to receive catalogues on the above commodities. Catalogues may be in English, but Spanish is preferred, and correspondence should be in Portuguese, if possible.

Florists are to join in the effort to entirely eliminate the bad check evil which is causing so much trouble in Washington. The Retail Merchants' Association is issuing a request to business men to send in the names and addresses of all those who have given bad checks, together with the amount and the name of the bank on which they were given. All information thus gathered will be held in strictest confidence, and, when desired, collections or prosecutions will be brought.

BEAUTIES

There is a reason why you should send your order to us. We are Headquarters for Beauties in this market, as we handle the cut of 100,000 plants.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 2860 Madison Square

WOODROW & MARKETOS

WHOLESALE

Plantsmen and Florists

37 and 39 West 28th St., NEW YORK



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262 B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON October 26		ST. LOUIS October 23		PHILA. October 23	
Roses						
Am. Beauty, Special	20.00	to 25.00	25.00	to 35.00	25.00	to 30.00
" " Fancy and Extra	1.00	to 20.00	20.00	to 25.00	20.50	to 25.00
" " No. 1 and culls	2.00	to 6.00	6.00	to 10.00	6.00	to 15.00
Russell, Hadley	2.00	to 8.00	4.00	to 15.00	4.00	to 15.00
Killarney, Hillingdon, Ward, Extra	4.00	to 5.00	4.00	to 6.00	5.00	to 8.00
" " Ordinary	.50	to 2.00	2.00	to 3.00	2.00	to 4.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 5.00			5.00	to 10.00
" " Ordinary	.50	to 2.00			2.00	to 4.00
Ophelia, Mock, Sunburst, Euler, Extra	3.00	to 6.00	4.00	to 6.00	5.00	to 8.00
" " Ordinary	.50	to 2.00	2.00	to 3.00	2.00	to 4.00
Carnations	1.00	to 2.00	2.00	to 3.00	1.50	to 3.00
Cattleyas	23.00	to 40.00	50.00	to 60.00	25.00	to 40.00
Dendrobium formosum		to 50.00				
Lilies	5.00	to 6.00		12.50	10.00	to 15.00
Lily of the Valley	4.00	to 5.00		5.00	3.00	to 6.00
Snopdragon	1.00	to 2.00			1.00	to 5.00
Gladioli						
Chrysanthemums	4.00	to 12.00	5.00	to 25.00	5.00	to 25.00
Violets	.25	to .40		.25	.25	to .50
Gardenias		to 50.00			20.00	to 35.00
Adiantum		to 1.00		1.00		to 1.00
Smilax	12.00	to 20.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	20.00	to 35.00	25.00	to 35.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568 570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

The flower market has gone to pieces in double-quick time. It is the usual autumn smash which invariably follows the chrysanthemum influx, but for suddenness and severity this week's record has rarely been equalled. The prices obtainable for the best chrysanthemums cannot be but a fraction of what it cost to produce them. Roses are coming in heavy and so light is the sale for them that they remain in storage day after day until \$6.00 and \$8.00 grades are willingly disposed of at \$1.00. Carnations are accumulated also and sales are few. Lilies are again in overstock but quality is excellent. Violets are fluctuating as to quality but whether good or bad they find a very cool reception thus far. Yellow daisies are quite plentiful now and snapdragon of fair quality is in sufficient supply. One would hardly expect to see asters at this date but there are plenty of them in evidence at present writing. Outdoor material has been practically cleaned up for this year by a series of frosty nights.

The past week has been **BUFFALO** a busy one. Autumn wedding decorations and other floral work caused a heavy demand. Chrysanthemums are coming in more plentifully and have cleaned up well. Sales have been good on everything, especially carnations which are slow in coming forward. Beauties and other roses are plentiful. Lily of the valley, violets, orchids and other stock have shared in the demand. Lilies are a little slower in sales. Asparagus and greens plentiful.

Everything is fairly satisfactory in the **CHICAGO** market as October means the end. Probably as large a proportion of growers and retailers were pleased with the daily sales of the past week as is possible at any time. Of the three great staples, roses and chrysanthemums are in good supply and moving at fair prices, and carnations, while not sufficient in number, are selling, every one for all it is really worth. There is a large cut of roses now and the only ones in excess of demand are white, a condition that may change quickly. Chrysanthemums are still in the early part of their season. A large proportion of the daily cut is in yellow which has reduced the prices on that color on some days. Pompons are coming slowly but surely. Carnations have some of very fine size and quality now included in the daily offerings. Lilies are very scarce and lily of the valley is also very limited. American Beauties are fine in quality and sell readily. There is a limited supply of good sweet peas coming now and they are quickly sold. Green is inclined to be in oversupply.

The cut that comes into the wholesale houses is large and sufficient for all present needs. Ship-



OPHELIA

The Rose of today, a favorite in every way and a favorite with every buyer.

Our growers are cutting freely and splendid quality it is. Any orders, large or small, at

Special \$10 Extra \$8
First \$6 Second \$4

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS Q^{rs}

	CINCINNATI October 23	CHICAGO October 24	BUFFALO October 23	PITTSBURG October 16
Roses				
Am. Beauty, Special.....	25.00 to 35.00	1.00 to 40.00	20.00 to 25.00	25.00 to 35.00
" " Fancy and Extra.....	15.00 to 20.00	20.00 to 25.00	12.00 to 15.00	15.00 to 20.00
" " No. 1 and culls.....	4.00 to 10.00	8.00 to 15.00	4.00 to 10.00	8.00 to 12.00
Russell, Hadley.....	6.00 to 12.00	1.00 to 25.00	8.00 to 14.00	8.00 to 12.00
Killarney, Hillingdon, Ward, Extra Ord.	6.00 to 8.00	8.00 to 10.00	1.00 to 6.00	8.00 to 12.00
Arenburg, Radiance, Taft, Key, Ex. Ord.	3.00 to 5.00	3.00 to 5.00	3.00 to 6.00	4.00 to 6.00
Ophelia, Mock, Sunburst, Euler, Ex. Ord.	3.00 to 5.00	3.00 to 5.00	3.00 to 6.00	4.00 to 6.00
Carnations				
Cattleyas.....	2.00 to 4.00	2.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Dendrobium formosum.....	60.00 to 75.00	60.00 to 75.00	50.00 to 60.00	60.00 to 70.00
Lilies.....	12.00 to 15.00	12.00 to 15.00	8.00 to 12.00	12.00 to 15.00
Lily of the Valley.....	6.00 to 10.00	3.00 to 6.00	5.00 to 8.00	6.00 to 8.00
Snapdragon.....	4.00 to 6.00	3.00 to 6.00	3.00 to 6.00	3.00 to 6.00
Gladioli.....	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
Chrysanthemums.....	10.00 to 25.00	10.00 to 30.00	10.00 to 20.00	20.00 to 30.00
Violets.....	.30 to .50	.30 to .50	.50 to .60	.40 to .60
Gardenias.....	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Adiantum.....	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Smilax.....	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00	12.50 to 15.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00 to 50.00	25.00 to 50.00	35.00 to 50.00	30.00 to 50.00

ping business, particularly in greens and supplies, is large. Roses are in a good supply but have only a fair market. Carnations are not any too plentiful. Chrysanthemums are in a heavy supply. A fair cut of lilies is coming into the market. Lily of the valley and orchids come in regularly. Other offerings include callas, violets and sweet peas.

Trade is far from being satisfactory. Conditions are unsettled as is usual at this period every year and the pressure from the chrysanthemums which are everywhere in enormous quantities has simply submerged the market. The chrysanthemums are of very fine quality, superb flowers, but the best of them realize only insignificant returns and all other flowers have been forced very low in sympathy. Carnations are at last in strong evidence and quality is now approaching normal for the season. Roses generally are of splendid quality but owing to the chrysanthemum pressure they are sold in bulk at low figures. Cattleyas have receded considerably in quantity offered and are

Violets are a superfluity, with no set market value. Gardenias move a little more steadily than they did. The first paper white narcissi have made their appearance. However, the situation does not very materially differ from that of former seasons at a corresponding juncture.

There has been no marked change in the cut flower situation here. Business has continued fairly brisk with an ample supply of good stock in all the seasonable staples. The chrysanthemum is cutting more of a figure as the days roll by and now rivals the rose in popular favor. The buyers seem to feel that they are getting more show for their dollar in chrysanthemums for the time being than they do in roses. Carnations are much better and demand ahead of supply. Orchids have tightened up again after a season of much plenty. Violets are very good for so early, both single and double. New crop bouvardias and callas are in. Lilies are scarcer.

Continued on page 5

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephone: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street
Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE { 605 } MADISON SQ., NEW YORK
609

JOHN YOUNG & CO.
WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7383 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Lanceolates, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.

Tel. { 1583 } Mad. St. 119 W. 28 St., New York
5893

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.
Wholesale Commission
READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE { 2281 } FARRAGUT 131 West 28th St., NEW YORK CITY
3089

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS
GARDENIAS, DAISIES, ROSES, CARNATIONS

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 769

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 2483 Farragut

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones { 1664 } Madison Square
1665

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending Oct. 21 1916		First Half of Week beginning Oct. 23 1916	
American Beauty, Special	15.00	to 25.00	20.00	to 25.00
" " Fancy and Extra	10.00	to 15.00	10.00	to 15.00
" " No. 1 and culls.	3.00	to 8.00	2.00	to 8.00
Russell, Hadley	2.00	to 10.00	2.00	to 10.00
Killarney, Hillingdon, Ward, Extra	3.00	to 6.00	3.00	to 5.00
" " Ordinary .....	.75	to 2.00	.50	to 2.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 8.00	3.00	to 6.00
" " Ordinary .....	.75	to 2.00	.50	to 2.00
Ophelia, Mook, Sunburst, Euler, Extra	4.00	to 8.00	3.00	to 6.00
" " Ordinary .....	.75	to 1.00	.50	to 1.00
Carnations	1.00	to 2.00	1.00	to 2.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for doing
our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK
Phones 2036, 2037, 558 Farragut

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797-798-799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality.

114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13—8510 Madison Square

MAURICE L. GLASS, Treasurer

Consignments Solicited

Flower Market Reports

(Continued from page 58.)

Flowers of practically all kinds in season are coming in "fine fettle," so to speak. The market, however, is not over crowded, the supply at present just about paralleling the demand, which is about as to be expected at this season.

The frost arrived and with its outdoor stock with but few exceptions has come to an end and everyone is glad of it. Chrysanthemums are now arriving in quantity and wide range of quality, but there are but few of the extra quality stock. Violets are improving. California shipments have already started and they carry well, but the fragrance is not there. Carnations are improving in color and in length of stem. There is good demand for greens of all kinds.

The present week opened with the weather considerably colder and the growers look for stiffening prices with less stock on the market. Dahlias and cosmos have been shutting off the sale of all other flowers. Roses and chrysanthemums are plentiful and good. Carnations continue scarce. Plenty of violets are now to be had, preference being given to singles. There are a few sweet peas and good yellow daisies offered. Snapdragon is good. Lily of the valley is again at \$6 per hundred. American Beauty roses, as good as ever seen in the Washington market, sell readily at up to \$4 per dozen.

Visitors' Register

West Grove, Pa.—J. F. Sullivan, Detroit, Mich.

Amherst, Mass.—John Coombs and family, Hartford, Conn.

Washington, D. C.—W. H. Hankinson, representing Ralph M. Ward, New York; Walter H. Page, Charlottesville, Va.

Philadelphia—Henry D. Knight, Foster & Foster, Palm Beach, Fla.; C. B. McVay, Jr., Birmingham, Ala.; William Raeder, Wilmington, N. C.; Mr. Tanner, Radcliffe & Tanner, Richmond, Va.

Cincinnati—G. Wertheimer, New York City; Sam Seligman, American Bulb Co., Chicago; Jos. Hill, Richmond, Ind.; Frank Ball, Indianapolis, Ind.; Miss Federle, Karl Weiser and Walter Gray, all of Hamilton, Ohio.

Chicago—A. Schulz, Hammond, Ind.; Geo. E. Valke, Minot, N. D.; Mrs. Evans, of the La Salle Flower Shop, La Salle, Ill.; Mr. and Mrs. H. A.

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2695

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Oct. 21 1916		First Half of Week beginning Oct. 23 1916	
Cattleyas	25.00	to 35.00	20.00	to 40.00
Dendrobium formosum	.....	to 50.00	.....	to 50.00
Lilies	5.00	to 10.00	4.00	to 8.00
Lily of the Valley	3.00	to 5.00	3.00	to 5.00
Snapdragon	1.00	to 2.00	1.00	to 2.00
Gladioli	.50	to 3.00	.50	to 2.00
Chrysanthemums	10.00	to 35.00	4.00	to 25.00
Violets	.20	to .40	.20	to .40
Gardenias	25.00	to 40.00	25.00	to 40.00
Adiantum	.25	to .50	.25	to .50
Smilax	8.00	to 15.00	8.00	to 15.00
Asparagus Plumosus, & Spreng (100 bunches)	10.00	to 25.00	10.00	to 25.00

ORCHIDS - - GARDENIAS

HEADQUARTERS for the entire output of the

BEECHWOOD HEIGHTS NURSERIES, of Bound Brook, N. J.

PAUL MECONI—Wholesale Florist—NEW YORK

Telephone Nos. 3864 and 8364 Madison Square

57 WEST 26th STREET

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square
BOSTON, MASS.

Telephone 2618-2617-2616, Main.

William Stuart Allen Co.

Commission Merchants in

CUT FLOWERS

53 West 28th Street, NEW YORK

Telephone—356 Madison Square.

Gentemann, Quincy, Ill.; Eber Holmes, representing W. A. Manda, Inc., South Orange, N. J.

New York—Charles Nichols, office manager for L. J. Reuter & Son, West-erly, R. I.; Fred Howard, Los Angeles, Cal.; S. S. Pennock, Phila., Pa.; Sam Seligman, American Bulb Co., Chicago; L. J. Reuter, West-erly, R. I.; Conrad Schultz, West-erly, R. I.; Douglas A. Brown, Cincinnati, Ohio; S. J. Mitchell, Houston, Tex.

Pittsburgh—S. L. Parker, Fulper Pottery Co., Fleming, N. J.; Len J. Seiger, rep. Robert Craig Co., Phila.; Charles Falkenheim, Basket Novelty Co., New York City; Julius Dilloff, New York; J. J. Goudy, H. A. Dreer, Phila.; Sidney Tine, Charles Zinn & Co., New York; E. J. Fancourt, Pen-nock-Meehan Co., Phila.; M. Liebman, Krauss & Co., New York.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.
(INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK
Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission
Consignments of
Good Stock Solicited

PERCY W. RICHTER, Mgr., 111 W. 28th St.
NEW YORK

HERMAN WEISS

Wholesale Florist

Experienced, Progressive and can handle shipments of growers' product satisfactorily.

106 West 28th St., NEW YORK
Tel. Farragut 3066.

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street
167 & 3058 Farragut NEW YORK

Established 1888 Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists

110 West 28th St., New York
We Solicit Consignments of New England Grown Novelties.

VIOLET GROWERS

Before making your shipping arrange-ments for the coming season please con-sult with me. I HANDLE VIOLETS ONLY and give my entire time and atten-tion to the interests of my violet growers.

Write Now

CLARENCE SLINN

111 W. 28th Street NEW YORK

FLOWER POIS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Boston, Mass.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons
White Marsh, Md.

For page see List of Advertisers.

Geraniums: S. A. Norton, also
rooted cuttings. First class. Write
for prices. FRANK LINT & SON,
Haverhill, Mass.

GLASS

Sharp, Partridge & Co., Chicago
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

Glass 6x8, 8x10, 10x12, 10x14, \$1.65
per box. Other sizes at factory prices.
C. N. ROBINSON & BRO., Dept. 20,
Baltimore, Md.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.

For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, cas-
ties, globes, aquarium, fish goods, nets,
etc., wholesale. FRANKLIN BARRETT,
Breeder, 4815 D St., Olney, Philadelphia,
Pa. Large breeding pairs for sale. Send
for price list.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.

For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset,
Boston.

Pecky Cypress.

For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

John C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

Hitchings & Co., New York City.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit,
Mich.

For page see List of Advertisers.

The Kervan Co., New York City.
For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, N. A. C.
For page see List of Advertisers.

Padua Nurseries, N. A. C.
For page see List of Advertisers.

P. Ouwens, N. A. C.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

HOT BED SASH

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co.,
Chicago, Ill.

For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

HOSE

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.

For page see List of Advertisers.

H. A. Dreer, Philadelphia, Pa.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

HYDRANGEAS

Anglin & Walsh Co., Williamsbridge, N. Y.
Otaka and Avalanche.

For page see List of Advertisers.

INSECTICIDES

Hammond's Paint & Slug Shot Works,
Beacon, N. Y.

Hammond's Thrip Juice No. 2.
For page see List of Advertisers.

Aphine Manufacturing Co., Madison, N. J.
Aphine.

For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.

For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.

For page see List of Advertisers.

B. G. Pratt Co., New York City.
Whys and Wherefores of Fall Spraying.

For page see List of Advertisers.

IRIS

John Lewis Childs, Flowerfield, N. Y.
Japan Iris.

For page see List of Advertisers.

IVY

A. L. Miller, Jamaica, N. Y.
Field Grown.

LILY BULBS

Chas. Schwabe & Co., New York City.
Horticultural Importers and Exporters.

For page see List of Advertisers.

McHutchison & Co., New York.
Lily Bulbs from Japan.

For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Lilium Harrisii Bulbs.

For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
Lilium Formosum Bulbs.

For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Lilium & Eranthis.

For page see List of Advertisers.

August Bolker & Sons, New York City.
Hardy Lilies.

LILY OF THE VALLEY BULBS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

PIPE AND FITTINGS—Continued

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special"
For page see List of Advertisers.

Richmond Cedar Works, Richmond, Va.
Cedar Plant Tubs.

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Hardy Roses, American Grown.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

ROSE STAKES

The Carnation Support Co.,
Connersville, Ind.
For page see List of Advertisers.

SASH

Standard Hot Bed Sash with cross bar,
80c. each; lots of 25 and over, 75c. each.
Satisfaction guaranteed or money refunded.
Glass 6 x 8, 8 x 10, 10 x 12 or 10 x 14. \$1.05
per box of 50 sq. ft. C. N. ROBINSON &
BRO., Dept. 29, Baltimore, Md.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Boigliano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farinham & Co., Boston, Mass.
Gold Medal Cyclamen Seed.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Lochner & Co., New York City.
For page see List of Advertisers.

SEEDS—Continued

Ant. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Seeds, Selected Strains.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
For page see List of Advertisers.

Roman J. Irwin, New York City.
New Crop Florists' Seeds.
For page see List of Advertisers.

Fottler, Fliske, Rawson Co., Boston, Mass.
Seeds for the Florist.
For page see List of Advertisers.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGGER
& HURRELL, Summit, N. J.

SWEET PEA SEED

Arthur T. Boddington Co., New York City.
The Sensational Pink Sweet Pea
Yarrowa.

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VIOLETS

Clarence Slinn, 123 West 28th St., New York
City.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

WHOLESALE FLORISTS

Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 1
Winthrop Sq.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 568-570 Washing-
ton St.
For page see List of Advertisers.

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 264-266
Randolph St.
For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 25th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 131 West 24th St.
For page see List of Advertisers.

Hents & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Fraendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

Paul Meconi, 57 West 28th St.
For page see List of Advertisers.

Woodrow & Markatos, 37 and 39 W. 28th St.
For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 53 West 24th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Guttman & Reynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunter Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

For List of Advertisers See Page 563

WHOLESALE FLORISTS New York—Continued

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

George W. Crawbuck Co., 57 West 28th St.
For page see List of Advertisers.

William Stuart Allen Co., 53 West 28th St.
For page see List of Advertisers.

Clarence Slinn, 123 West 28th St.
For page see List of Advertisers.

Philadelphia

Leo Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1606-20
Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 21 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.

New Offers In This Issue

AMERICAN BEAUTIES.

The Leo Niessen Co., Philadelphia, Pa.
For page see List of Advertisers.

BULBS AND BOXWOOD AT AUCTION.

Johnson & Millang, New York City.
For page see List of Advertisers.

GIANT PANSIES, SEEDS AND PLANTS.

H. P. Beers, Greens Farm, Conn.
For page see List of Advertisers.

GREENHOUSE FITTINGS.

Advance Co., Richmond, Ind.
For page see List of Advertisers.

HARDY ROSES.

August Rolker & Sons, New York City.
For page see List of Advertisers.

HOLLAND BULBS—SPIREA.

Thomas Cogger, Melrose, Mass.
For page see List of Advertisers.

KENTIA SEED.

McHutchison & Co., New York City.
For page see List of Advertisers.

LILIUM HARRISII, NARCISSUS, HYACINTH AND TULIP BULBS.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

PRIMULINUS HYBRIDS (Gladioli)

John Lewis Childs, Flowerfield, L. I., N. Y.
For page see List of Advertisers.

ROSE OPHELIA.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

SHAMROCK SEED.

Arthur T. Buddington, New York City.
For page see List of Advertisers.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 147 Summer St., Boston.

HELP WANTED

WANTED—Sober, industrious man thoroughly able to grow all flowers and vegetables under glass, to take charge of greenhouses on large private place near New York City. Must be able to manage other men in greenhouses but he will not be required to manage outside work. Single man preferred.

AMOIAT GREENHOUSES,
Mamaroneck, New York.

SITUATIONS WANTED

Gardener with first-class references, 30 years old, married, no children. Experience in and outdoors on well-known private places. Address "R. S.," care HORTICULTURE, Boston.

PROPOSALS

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., October 24, 1916.—SEALED PROPOSALS will be received in this office until 10 a. m. December 1, 1916, and then opened, for planting trees, shrubs, etc., on the grounds of the Federal Buildings at Albany, Eugene, Pendleton, The Dalles, Oregon; Idaho Falls, Idaho; Brigham City, Utah; Bellingham, Everett, Walla Walla, Washington; Chico, Grass Valley, Pasadena, Santa Barbara, California; in accordance with the specification, copies of which as well as copies of approach plans of the several buildings may be had upon application to the respective Custodians of the Buildings, or at this office. Make application only for the specifications and drawings for the buildings for which you intend to submit proposals. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., October 24, 1916.—SEALED PROPOSALS will be received in this office until 10 a. m. November 18, 1916, and then opened, for planting trees, shrubs, etc., on the grounds of the Federal Buildings at Bedford, Carnegie, Corry, Gettysburg, Harrisburg, Huntingdon, Ridgway, Pennsylvania; Lewes, Delaware; Burlington, Long Branch, Morristown, New Jersey; Bluefield, Charleston, Fairmont, Grafton, Moundsville, Point Pleasant, Sistersville, West Virginia; Covington, Hampton, Norton, Virginia; in accordance with the specifications, copies of which as well as copies of approach plans of the several buildings may be had upon application to the respective Custodians of the Buildings, or at this office. Make application only for the specifications and drawings for the buildings for which you intend to submit proposals. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., October 24, 1916.—SEALED PROPOSALS will be received in this office until 10 a. m. November 16, 1916, and then opened, for planting trees, shrubs, etc., on the grounds of the Federal Buildings at Elizabeth City, Gastonia, Kinston, Rocky Mount, Washington, North Carolina; Fulton, Georgetown, Henderson, Jackson, Lawrenceburg, Kentucky; Cookeville, Jellico, Shelbyville, Tennessee; Clarksdale, Laurel, Mississippi; Sumter, South Carolina; Cartersville, Quitman, Thomasville, Georgia; Live Oak, Florida; in accordance with the specifications, copies of which as well as copies of approach plans of the several buildings may be had upon application to the respective Custodians of the Buildings, or at this office. Make application only for the specifications and drawings for the buildings for which you intend to submit proposals. Jas. A. Wetmore, Acting Supervising Architect.

PROPOSALS

ASHERY DEPARTMENT, Supervising Architect's Office, Washington, D. C., October 24, 1916.—SEALED PROPOSALS will be received in this office until 10 a. m. November 30, 1916, and then opened, for planting trees, shrubs, etc., on the grounds of the Federal Buildings at Austin, Minnesota; Chippewa Falls, Delavan, Marinette, Stevens Point, Watertown, Wisconsin; Minot, Wahpeton, North Dakota; Billings, Bozeman, Miles City, Montana; Lander, Rock Springs, Wyoming; Albion, Alpena, Big Rapids, Cadillac, Escanaba, Holland, Ishpeming, Mount Clemens, Potosi, Three Rivers, Traverse City, Michigan; in accordance with the specification, copies of which as well as copies of approach plans of the several buildings may be had upon application to the respective Custodians of the Buildings, or at this office. Make application only for the specifications and drawings for the buildings for which you intend to submit proposals. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., October 24, 1916.—SEALED PROPOSALS will be received in this office until 10 a. m. November 22, 1916, and then opened, for planting trees, shrubs, etc., on the grounds of the Federal Buildings at Hot Springs, Newport, Arkansas; Amarillo, Bryan, Cuero, Longview, Uvalde, Texas; El Reno, Lawton, Oklahoma; Arkansas City, Clay Center, Chanute, Garden City, Independence, McPherson, Wellington, Winfield, Kansas; Chillicothe, De Soto, Webb City, Missouri; Beatrice, Lincoln, McCook, Nebraska; Davenport, Iowa; Roswell, New Mexico; Greeley, Colorado. In accordance with the specifications, copies of which as well as copies of approach plans of the several buildings may be had upon application to the respective Custodians of the buildings, or at this office. Make application only for the specifications and drawings for the buildings for which you intend to submit proposals. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., October 24, 1916.—SEALED PROPOSALS will be received in this office until 10 a. m. November 20, 1916, and then opened, for planting trees, shrubs, etc., on the grounds of the Federal Buildings at Bellaire, Bellefontaine, Cambridge, Dayton, Marion, Mansfield, Massillon, Portsmouth, Salem, Sidney, Tiffin, Wooster, Xenia, Ohio; Beardstown, Blue Island, Belvidere, Canton, Centralia, Collinsville, Danville, Duquoin, Evanston, Harrisburg, Macomb, Mount Vernon, Paris, Princeton, Robinson, Urbana, Illinois; Bloomington, Connorsville, Crawfordsville, Elwood, Gary, Goshen, Jeffersonville, Mishawaka, Peru, Princeton, Seymour, Portland, Muncie, Indiana; in accordance with the specifications, copies of which as well as copies of approach plans of the several buildings may be had upon application to the respective Custodians of the Buildings, or at this office. Make application only for the specifications and drawings for the buildings for which you intend to submit proposals. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., October 24, 1916.—SEALED PROPOSALS will be received in this office until 10 a. m. November 14, 1916, and then opened, for planting trees, shrubs, etc., on the grounds of the Federal Buildings at Biddeford, Gardiner, Oldtown, Waterville, Maine; Pawtucket, Rhode Island; Rochester, New Hampshire; Bennington, Brattleboro, Vermont; Greenfield, Massachusetts; Ansonia, Danbury, Stamford, Connecticut; Auburn, Fulton, Glens Falls, Mount Vernon, New Rochelle, Olean, Port Jervis, New York; in accordance with the specifications, copies of which as well as copies of approach plans of the several buildings may be had upon application to the respective Custodians of the Buildings, or at this office. Make application only for the specifications and drawings for the buildings for which you intend to submit proposals. Jas. A. Wetmore, Acting Supervising Architect.

In writing to Advertisers kindly mention Horticulture

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**DREER'S "Riverton Special" Plant Tub**

No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.60	\$17.50	\$145.00
20	18 in.	1.45	15.50	130.00
30	16 in.	1.10	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.**GREENHOUSES BUILDING OR
CONTEMPLATED.**

Oakhurst, N. J.—John Brown, one house.

Albany, N. Y.—Hugh Morgan, rebuilding.

Middletown, R. I.—Carl Jurgens, alterations.

Atchison, Kan.—Groves Floral Co., one house.

Williamsport, Pa.—James Bren, house 30 by 60.

Springfield, Ill.—Mrs. Helen Angier, South Main St., one house.

Boonville, Mo.—E. C. Stammerjohn, house 28 by 100.

Corfu, N. Y.—W. Preisach, rebuilding house 38 by 100.

Kansas City, Mo.—B. B. Crane, rebuilding three houses.

Athol, Mass.—W. M. Boynton, Wallingford Ave., one house.

Philadelphia, Pa.—John Maurer, 5012 Wakefield St., one house.

Atlantic Highlands, N. J.—W. B. Parsons, Locust Point, one house.

Media, Pa.—J. M. Hurley, two houses each 12 by 125, completed.

Fort Wayne, Ind.—A. J. Lanternile & Co., Anthony boulevard, rebuilding.

Amsterdam, N. Y.—Delamater, florist, McClellan Ave., Lord & Burnham house.

Itaska, Ill.—H. H. Geils, two houses each 28 by 100; two houses each 20 by 100.

Carthage, Mo.—Tadlock Greenhouses, Forest & Clevenger Sts., two houses.

Rochester, N. Y.—Francis B. Mitchell, Kolaneka Farm, one house; Richard Teute, Long Meadows, house 20 by 100.

PATENTS GRANTED.

1,201,259. Weeder and Vine-Turner. Levin B. Collins, Sharptown, Md.

1,201,823. Flower-Pot. Frederick Holtke and Frederick Schaffert, Jr., Caristadt, N. J.

Hartford, Conn.—Defendant's motion for a more specific statement and defendant's demurrer to the complaint in the suit of Charles K. Swenson against the Charter Oak Brick company have been denied and overruled by Judge M. A. Shumway of the superior court. Swenson is a florist in West Hartford, and he claims damages from the brick company, which has its plant in the next lot to his greenhouses, his claim being that the fumes from the brick kilns and poisonous and noxious gases were wafted onto his plants and they were killed. The defendant wanted a list of the plants injured, their names and their value set up.

[Mr. Swenson's attorneys, if they have not already done so, should get a copy of the records of the successful suit of M. H. Walsh of Woods Hole, Mass., against the N. Y., N. H. & H. R. R. for damages of a similar nature. Ed.]

**KROESCHELL
BOILER**

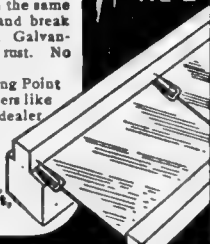
SEND FOR CATALOGUE

**KROESCHELL BROS. CO.**
466 W. Erie St. Chicago, Ill.**Dreer's Peerless
Glazing Points
For Greenhouses**

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.
Samples free.
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No 2**NON-KINK WOVEN ROSE**

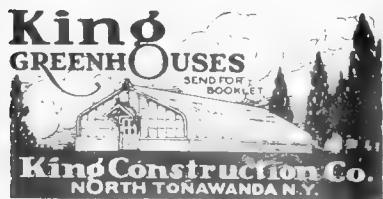
In any length (one piece) with couplings, 14c. per foot. Unequaled at the price. Remnants, shorter than 50 feet, 10c. per foot, with couplings.

HOSE VALVE—70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

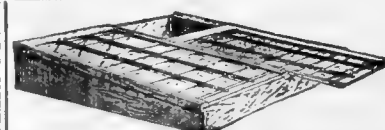
1392-1414 Metropolitan Ave., Brooklyn, N. Y.

**STANDARD FLOWER
POTS**

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

2nd & M Sts., Washington, D. C.

**HOTBED SASH at 75c. each**

Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.

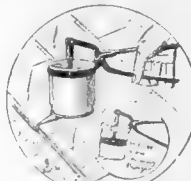
Double Light Sash up to \$4.00.

We carry a large stock of all sizes.

Write us for estimate.

S. JACOBS & SONS

1359-1385 Flushing Avenue BROOKLYN, N. Y.



Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

Real-tight liquid putty at \$1.25 per gallon.
METROPOLITAN MATERIAL CO.
1392-1414 Metropolitan Ave., Brooklyn, N. Y.

FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, - - - - - CHICAGO, ILL.



Make Repairing a Cinch

By using Advance Greenhouse Fittings. Our catalog shows how. A Split Tees here and a Bench Brace there will increase the appearance 50 per cent.

Write us today

ADVANCE CO., Richmond, Indiana

CYPRESS GREENHOUSE STOCK

PECKY CYPRESS BENCH STOCK

HOT BED SASH

Ask for Circular D and Prices

THE A. T. STEARNS LUMBER COMPANY

NEPONSET, BOSTON

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

MASTICA



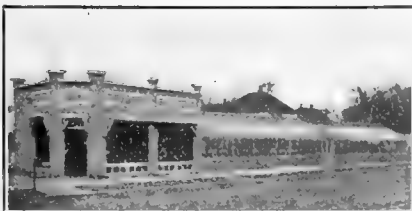
For Greenhouse
Glazing
USE IT NOW

F. O. PIERCE CO.
12W. BROADWAY
NEW YORK

Mastica is elastic and tenuous, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

The Florists' Hall Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address

JOHN G. ESLER, Sec., Saddle River, N. J.



EVERYTHING FOR THE GREENHOUSE
John C. Moninger Company

CHICAGO 922 Blackhawk St. NEW YORK 812 Marbridge Bldg.
CINCINNATI, 2314 Union Central Bldg.



Evans 21st Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

THE RIGHT WAY

Gives Us The Right Of Way



Every Metropolitan greenhouse is planned with an eye to results—successful crops.

Our cares do not cease with the mere mechanical part of the work. And, while we no doubt owe a great deal of our success to the high grade character of our labors, still we base our claims for your consideration, upon our ability to erect the right kind of a greenhouse in the right manner, at the right price.

PUT YOUR GREENHOUSE PROBLEMS UP TO US

*We go anywhere in the U. S.
to submit plans and prices.*

METROPOLITAN MATERIAL CO.

Patented Greenhouses

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

GLASS

**GREENHOUSE MATERIAL
HOT-BED SASHES**

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

PATENTS

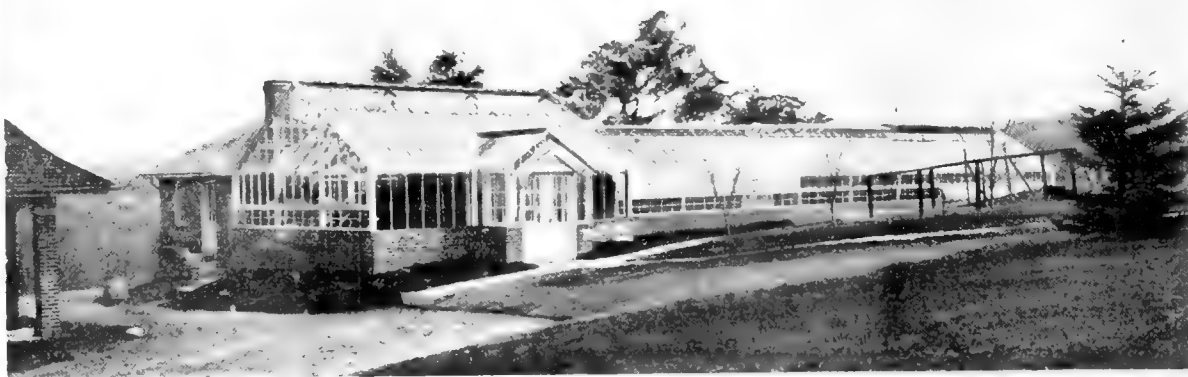
Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

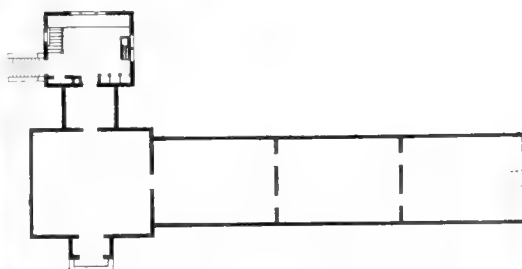
SIGGERS & SIGGERS

PATENT LAWYERS

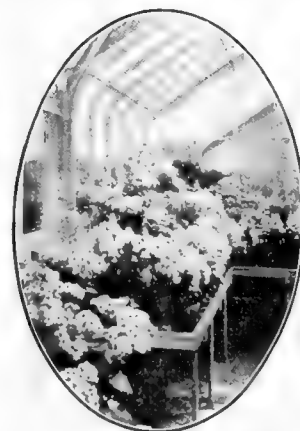
Box 9, National Union Building
Washington, D. C.



Chas. Young, the gardener.



The Jesse Straus Layout At Mt. Kisco, N. Y. Chas. Young, Gardener



Glimpse in corner of show house.

IT was one of last Spring's first glorious days that lured me away from the office, and found me with camera in hand, heading for Mt. Kisco, and the Jesse L. Straus houses, where Chas. Young has the reputation of successfully courting the Goddess Flora.

Location conditions considered, the greenhouse as laid out, fits its place admirably.

Naturally, one expected to find palms in the palm house, but instead it was "chock-ablock" with Easter plants in their height of bloom.

The sight made me wonder why more gar-

deners didn't use their palm house for show use.

The growing houses you notice, altho curved eave, have continuous over bench side ventilation. In this case the sash are hinged to an angle iron, and the gutter is at the sill. But now, with our new modified Curved Eave Construction, the gutter is above the sash where the curve starts, and having a longer sweep than in the old one, it gives higher sides and makes a neat and thoroughly architectural way to take care of the side sash and side ventilation.

When you are ready to build, say when and where, and we'll be there to talk it over with you.

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

SALES OFFICES:

NEW YORK 42nd Street Bldg.	BOSTON Tremont Bldg.	PHILADELPHIA Widener Bldg.	CHICAGO Rookery Bldg.	ROCHESTER Granite Bldg.	CLEVELAND Swetland Bldg.
TORONTO, CANADA, Royal Bank Bldg.			MONTREAL, Transportation Bldg.		

FACTORIES: Irvington, N. Y. Des Plaines, Ill. St. Catharines, Canada

Vol. XXIV
No. 19
NOV. 4
1916

HORTICULTURE

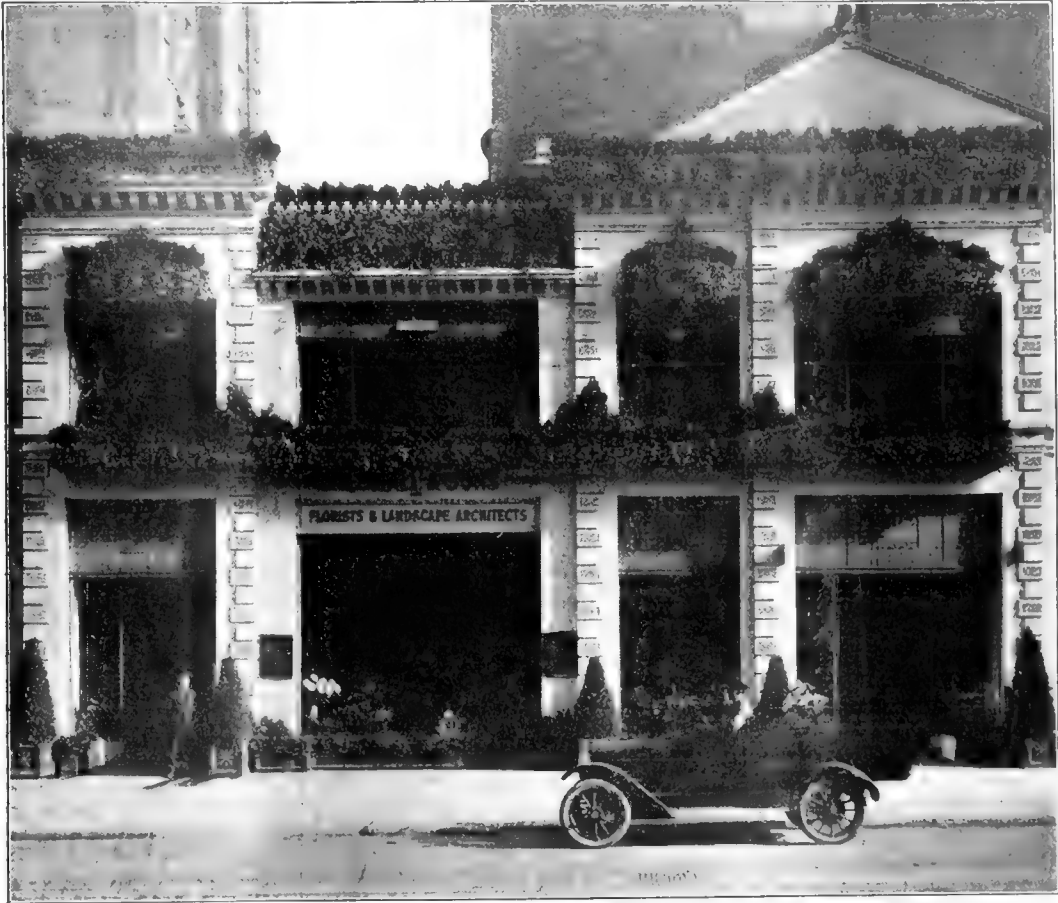


Photo by Pach Bros., N. Y.

An Ideal Flower Store

J. H. Small & Sons, New York.

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription \$1.00



Sim's Hybrid Yellow Polyanthus

(Giant English Primrose)

GOLD MEDAL AWARDED AT PHILADELPHIA

This is the best selling novelty in years. They make charming pot plants for Easter and are indispensable for cutting. They bloom from December to May. Now is the time to pot up for spring trade or plant in benches for cut flowers.

Plants suitable for 5 and 6-in. pots.

PRICES

100, \$10; 500, \$40; 1000, \$75: for planting out for cut flowers
100, \$12; 1000, \$100: 500 at the 1000 rate

SIM'S GOLD MEDAL PANSY plants for wintering flowering,
100, \$4; 1000, \$30

WILLIAM SIM, CLIFTONDALE, MASS.

TREES

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties.

Sturdy, choice stock that can be depended upon. Send for catalog and special trade prices.

The Bay State Nurseries

North Abington
Mass.

SHRUBS

This New England, and climate produces fine sturdy shrubs. Special trade prices. By the thousands, hardy Natives and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate.

CARNATIONS

Field Grown

ENCHANTRESS SUPREME. EUREKA
WHITE WONDER. PINK DELIGHT.
\$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL,
MATCHLESS,
\$7.00 per 100; \$65.00 per 1000.

LADY NORTOLIFF, PINK WINBOR,
WHITE WINBOR.
\$8.00 per 100; \$50.00 per 1000.

WOOD BROS., FISHKILL, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ELMER D. SMITH & CO.
CHRYSANTHEMUMS

Ask for Catalogue

ADRIAN, - - - MICH.

CHARLES H. TOTTY
CHRYSANTHEMUMS
MADISON, N. J.

A. N. Pierson, Inc.
CROMWELL, CONN.

Bedding Plants and Roses

REMEMBER!

If it's a Hardy Perennial or so called Old Fashion Flower worth growing, we have it in one shape and another the year round. We have the largest stock in this country, all made in America, and our prices

will average 75c. per doz., \$5.50 per 100.

Why say more here? Send for our Wholesale Price List of varieties and benefit from the opportunities this affords you. Address

PALISADES NURSERIES, Inc.

R. W. OLUCAS, Manager.

SPARKILL - - - N. Y.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, M. P. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St. Woburn Heights P. O. No. 1, Hoboken N. J.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY. Small, medium and large sizes supplied. Price list now ready.

THE D. HILL NURSERY CO.
Evergreen Specialists. Largest Growers in America.

BOX 415, DUNDEE, ILL.

When writing to advertisers kindly mention **HORTICULTURE**.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.

HATBORO, PA.

ROBERT CRAIG CO., ROSES, PALMS,

and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

HYDRANGEA OTAKSA & AVALANCHE

Field grown plants, ready for 6-inch pots; \$14.00 per 100.

ANGLIN & WALSH CO.

W. Liamsbridge, N. Y.

BOBBINK & ATKINS

Nurserymen, Florists
and Planters

RUTHERFORD, NEW JERSEY

CHRYSANTHEMUM ALEX. GUTTMAN

The best Early Lavender-Pink in the Market. Blooms have been selling for \$6.00 per dozen since middle of September. Stock Plants, 75c. each, \$7.50 per doz.

GUTTMAN & RAYNOR, INC.

Wholesale Florists
101 West 28th St., New York, or **FRANK DINDA**, Farmingdale, N. Y.

GERANIUMS

We have the largest stock in better condition than we have ever had, and all in the best shape. Alph. Richard, 1601 E. 1st Ave., Jean Viand, Edmond Place and Scarlet Bell, 1601 E. 1st Ave., 3-in. at \$3.00 per 100, \$30.00 per 1000. S. A. Nutt, Gen. Grant, Mad. Buchner, Mad. R. 1601 E. 1st Ave., 2-in. at \$2.00 per 100, \$18.50 per 1000; 3-in. at \$3.00 per 100, \$25.00 per 1000. CROTONS. Good 4-in stock \$2.50 per doz., \$25.00 per 100. BOSTON FERNS, 7 in. \$8.00 per doz.; 8 in. \$1.00 each, \$9.00 per doz. Large pots 12 in. \$2.00 to \$4.00 each.

	2-in.	2-in.	3-in.	3-in.		2-in.	2-in.	3-in.	3-in.
	100	1000	100	1000		100	1000	100	1000
ACALYPHA	\$2.50	\$20.00	\$3.50	\$30.00	LEMON VERBENAS	\$2.00	\$18.50	\$3.00	\$25.00
ALTERNANTHERAS	2.00	18.50	3.00	25.00	LANTANAS, 10 varieties	2.00	18.50	3.00	25.00
AGERATUM	2.00	18.50	3.00	25.00	MOONVINES, White and Blue	2.00	18.50	3.00	25.00
ASPARAGUS SPRENGERI			5.00		PARLOR IVY, S. Scandens	2.00	18.50	3.00	25.00
BEGONIAS, Vernon	2.00	18.50	3.00	25.00	PETUNIAS, Double and Single	2.00	18.50	3.00	25.00
COLEUS	2.00	18.50	3.00	25.00	Mixed	2.00	18.50	3.00	25.00
CUPHEA	2.00	18.50	3.00	25.00	POMPOX CHRYSANTHEMUMS			3.00	25.00
HARDY ENGLISH IVY	2.00	18.50	3.00	25.00	SALVIA, Bonfire and Zurich	2.00	18.50		
HELIOTROPE	2.00	18.50	3.00	25.00	SWAINSONA, White	2.00	18.50	3.00	25.00

CASH WITH ORDERS.

R. VINCENT, Jr., & SONS CO., WHITE MARSH, MD.

LILY OF THE VALLEY PIPS

Danish and German Stock

Booking Orders now for 1916 Crop

LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW FOR 1916 CROP

CHAS. SCHWAKE & CO., Inc.

Valley

GERMAN, SWEDISH AND DUTCH PIPS

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page
Advance Co.....623	Coan, J. J.....617	Gude Bros. Co.....610	Lager & Hurrell.....596	Penn the Florist.....610
Albany Cut Flower Ex.....616	Cogger, Thos.....605	Gunther Bros.....617	Lange, H. F. A.....611	Pennock Meehan Co.....615
Allen, J. K.....617	Cooke, Geo. H.....610	Guttman & Raynor.....594 616	Leonard Seed Co.....609	Pierce Co., F. O.....623
Allen, Wm. Stuart.....617	Cowee, W. J.....614	Hail Association.....622	Loechner & Co.....595	Pierson, A. N.....594
American Bulb Co.....609	Craig, Robt. Co.....594	Hammond Paint & Slug Shot Works.....607	McHutchinson & Co.....596	Pierson, F. R.....596
Anderson, S. A.....611	Crawback, Geo. W. Co.....617	Hart, Geo. B.....616	McManus, Jas.....616	Pochmann Bros. Co.....614
Anglin & Walsh.....594	Dards.....610	Henderson, A. & Co.....609	McConnell, Alex.....610	Randall, A. L., Co.....604
Apbine Mfg. Co.....607	Davenport, A. M.....596	Hess & Swoboda.....611	MacNiff Horticultural Co.....603	Randall's Flower Shop.....611
Badgley & Bishop, Inc.....616	Delgado Q. Francisco.....596	Hews, A. H. & Co.....622	Marshall, W. E. Co.....609	Reed & Keller.....614
Barrows & Son.....596	Dinda, Frank.....594	Hill, E. G. Co.....614	Meconi, Paul.....617	Riedel & Meyer.....616
Bayersdorfer, H. & Co.....613	Dorner, F. & Sons Co.....594	Hill, D. Nursery Co.....594	Metropolitan Material Co.....622	Reid, Edw.....614
Bay State Nursery series.....594	Drer, H. A.....622	Hitchings & Co.....624	Michell, H. F. Co.....608	Reuters.....611
Beechwood Hghts. Nurseries.....617	Dunlop, John H.....611	Holland Nurseries.....594	Michigan Cut Flower Ex.....614	Robinson, H. M. & Co.....617
Beers, H. P.....596	Dysart, R.....610	Holm & Olson.....611	Millang, Chas.....616	Robinson, H. M. Co.....616
Bobbinck & Atkins.....594	Eastern Chemical Co.....607	Irwin, R. J.....609	Moninger, J. C. Co.....623	Rochrs, J. Co.....596
Boddington, A. T.....608	Edwards Folding Box Co.....614	Jacobs, S. & Sons.....622-623	Mt. Desert Nursery series.....596	Roland, Thomas.....611
Bolgiano & Son.....609	Elliott Auction Co.....596	Johnson & Millang.....606	Murray, Samuel.....610	Rolker, A. & Sons.....596
Breck, J. & Sons.....609	Ernest, W. H.....622	Kasting, W. F. Co.....614	National Nurseryman.....594	Rosery, The.....610
Breitmeyer's, J. Sons.....610	Esler, J. G.....622	Kelley, J. B. Sons.....610	Nicotine Mfg. Co.....607	Schling, Max.....610
Budlong, J. A.....614	Evans, J. A. Co.....623	Kelway & Son.....609	Nut Grower.....621	Schwake, Chas. Co.....595
Bunyard, A. T.....610	Eyes.....611	Kerr, the Florist.....611	Ouwerkerk, P.....594	Sharp, Partridge & Co.....623
Burnett Bros.....609	Farquhar, R. & J. & Co.....609	Kervan Co.....616	Palisades Nursery series.....594	Sheridan, W. F.....616
Burpee, W. A. & Co.....609	Foley Mfg. Co.....623	King Construction Co.....623	Palmer, W. J. & Son.....611	Siebrecht, Geo. C.....616
Campbell, Colin.....605	Ford, W. P.....616	Knoble Bros.....611	Park Floral Co.....610	Siebrecht, W. R.....616
Carter's Tested Seeds, Inc.....608	Ford, M. C.....616	Kramer, F. H.....611	Parshelsky Bros.....621	Sigors & Sigors.....623
Childs, John Lewis.....596	Froment, H. E.....616	Kroeschell Bros.....622		Sim Wm.....594
Clarke's, D. Sons.....610	Galvin, Thos. F.....611	Kuebler, W. H.....616		Skidelsky, S. S. & Co.....609
Clucas, R. W.....594	Graham, Adam & Son.....611			Slinn, B. S., Jr.....617
	Grey, Thos. J. Co.....609			
	Gasser Co., J. M.....611			

FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 618, 619, 620, 621

IN THE LINE OF PROGRESS

We Are Headquarters for All the

New Hybrid Astilbes for Forcing

Very large spikes, magnificent foliage, named varieties in all shades from pure white to pink and rosy violet. Strong clumps for immediate shipment

Don't waste your valuable space on the old superseded sorts.

These new ones are indispensable

MOUNT DESERT NURSERIES, BAR HARBOR, MAINE.

KENTIA SEEDS

NEW CROP—JUST ARRIVED

KENTIA BELMOREANA

KENTIA FORSTERIANA

COCOS WEDDELIANA

Write for Import Prices, stating quantity required

McHUTCHISON & CO., THE IMPORT HOUSE 95 Chambers St., New York

Hardy Roses

New York State, two-year field-grown. Can furnish so long as unsold. **THIS FALL** or **NEXT SPRING** Delivery, in own-rooted stock: **GRUSS** an **TEPLITZ** hybrid tea, **HERMOSA** and **CLIMBING WHITE DOROTHY**, all at \$12.50 the 100; **EXCELSA**, the improved Crimson Rambler, at \$10 the 100 f. o. b. New York.

JAPAN BAMBOO CANES, green dyed, 3 ft. length, per bale of 2500, \$12.50; natural, 6 ft. length, per bale of 1000, \$7.50.

AUGUST RÖLKER & SONS, 51 BARCLAY STREET, New York
or P. O. BOX 752

CINERARIA HYBRIDA GRANDIFLORA, 3 in. ready for 4½ in. \$5.00 per 100

CINERARIA STELLATA, Strong 3 in. ready for 4½ in. Mixed Colors, \$5.00 per 100

SMALL FERNS FOR DISHES

Plenty of **Holly** and **Aspidium** 2¼ in., \$4.00 per 100; \$35.00 per 1000. **Adiantum rhodophyllum** and **cuneatum**, 3½ in., very strong plants, \$8.00 per 100.

A. M. DAVENPORT, Watertown, Mass.

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.

WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.

ROOSEVELTS—\$5 per 100, \$40 per 1000.

BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

LILY BULBS

RALPH M. WARD & CO.
71 MURRAY ST., NEW YORK

ORCHIDS

Francisco Delgado Q.

Orchid Collector

Solicits orders for shipments of Orchids. Prices quoted upon application.

BOGOTA (Chapinero) **COLOMBIA**

ORCHIDS

We grow and sell nothing but **ORCHIDS**. If you are in the market for this class of plants we respectfully solicit your inquiries and orders. Special lists on application.

LAGER & HURRELL, Summit, N. J.

OLDEST AUCTION HOUSE

IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co.

42 Vesey St., New York

DO NOT FAIL TO STOCK Primulinus Hybrids

(GLADIOLI)

They contain all the **Nasturtium** colors, Art shades, Terra Cotta, Apricot, etc.

The last word in dainty decorations

40c. per doz.; \$2.50 per 100;

\$20.00 per 1000

JOHN LEWIS CHILDS, INC.,

FLOWERFIELD L. I., N. Y.

F. R. PIERSON CO.

FLORISTS AND PLANTSMEN

TARRYTOWN-ON-HUDSON, - N. Y.

When writing to advertisers kindly mention HORTICULTURE.

ORCHIDS

CONSERVATORY PLANTS
BEGONIAS

Lorraine, Cincinnati and Mrs. Peterson

JULIUS ROEHRS CO.
Rutherford, N. J.

500,000 Giant Pansies

Grown from the Famous Jennings strain of seed. By express, 500, \$2.00; 1000, \$3.50. Large plants in bud and bloom, \$10.00 1000.

CASH WITH ORDER.

H. P. BEERS, GREEN'S FARMS
CONN.

When writing Advertisers kindly mention Horticulture

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toll, we ought to blame the culture, not the soil."—*Pope*.

Dracaena indivisa

Seed sown now will germinate quite freely. It should be sown in light sandy soil and kept in a temperature of 60 to 65 degrees. When large enough they can be put in 2 or 2½ inch pots and grown during the first season under glass, and the second season they can be planted out in the field. When lifted in the fall they will make fine plants for 5 or 6-inch pots. Pot bound *Dracaena indivisa* should be shifted now. Use a little care and pot them according to their size from a 3-inch to a 5-inch and place in a cool house or a deep cold pit. The latter will make a good place for them for the next four or five weeks. Keep them well-sprayed and they will soon become re-established. Give them 50 degrees at night during the winter and keep them well syringed on bright days.

Ericas

In ventilating beware of piercing winds that we are sure to have at this changeable part of the year, but always try to keep the atmosphere from becoming in any way stagnant, which is very injurious to this class of plants. They will not require much pushing to be in at Christmas and anywhere from 45 to 48 degrees night temperature will hold them in good shape. If there is any plant that likes a lot of air it is Erica. Should mildew show itself on any plant, remove the plant at once as it is very contagious, and blow sulphur through and over the plants until the attack is checked. These old favorites are coming to the front more and more as pot plants. For the Christmas holidays there is nothing better than *Erica melanthera*, *E. gracilis*, *E. Wilmoreana* and *E. regerminans*. Be very careful about watering. The only rule is to keep them in an even state of moisture at all times.

Forcing Gladiolus

The smaller flowered section of the *Colvillei* has many beautiful varieties. These small bulbs can be planted and forced in flats. Then there are the large-flowered kinds such as *Augusta*, *America*, *May*, *Shakespeare*, and *Silver Trophy*. Before starting to force them be sure that the corms are thoroughly cured. With ordinary weather conditions most varieties will flower in from 14 to 15 weeks after planting. When planting in benches the corms should be placed at least two inches below the surface and if you have room for six inches of soil plant them three inches deep. When planted deep they are not so liable to bend when coming into bloom. Give them at least five inches between the rows. If given a temperature of from 50 to 55 degrees at night they

will come along all right. Give them some liquid manure as the flower spikes are forming. This is very beneficial in producing fine blooms.

Smilax

To sustain vigor there is nothing better in the way of feeding than a mulch of rich compost spread between the rows. Syringe frequently as a preventive for red spider. Pay constant attention to the stringing. Good strings can only be raised by the unremitting attention of a guiding hand. When cutting begin at one end of the bed and clear off all the strings as they come along. A vigorous new growth will follow and the stringing of these new growths should take place before there is a mass of entangled vines that will be hard to straighten out. Little water will be needed until the new growth starts. In cutting always save any young growth as they can be strung and will give just so much headway. See that the night temperature does not go below 60 degrees.

Veranda Boxes for Winter

These should be filled early so the soil can have a chance to become somewhat settled before the real cold weather sets in. Give the boxes good drainage so that when the ground is not frozen hard the water can run off. A somewhat heavy soil rather than a sandy mixture, and one but sparingly enriched, should be used for this work. Bay trees, hollies, aucubas, boxwood, junipers, spruce, pine, arborvitae and biota, which are most attractive, all can be supplied at reasonable prices from our nurseries at home. There is no doubt but what the larger cities are more in need of something green during the winter months. Yet even in the suburbs and smaller towns there are occasional calls for stock of this kind, and in most cases it will require but little pushing on the part of the local florists to do a most profitable business in this line. When planted they can stand out of doors in some sheltered position until wanted.

Reminders

The earliest bulbs may now be brought into gentle heat.

It is time now to sow seed of shamrock for St. Patrick's day.

Take advantage of all good days and ventilate all departments.

It pays to spend some time in collecting leaves for leaf mold at this season.

Watch carefully for aphid on carnations; fumigate directly as soon as seen.

Next Week: Cult. of Carnations; Violets; Orchids; *Spiraea japonica*; Sweet Peas; Reminders.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

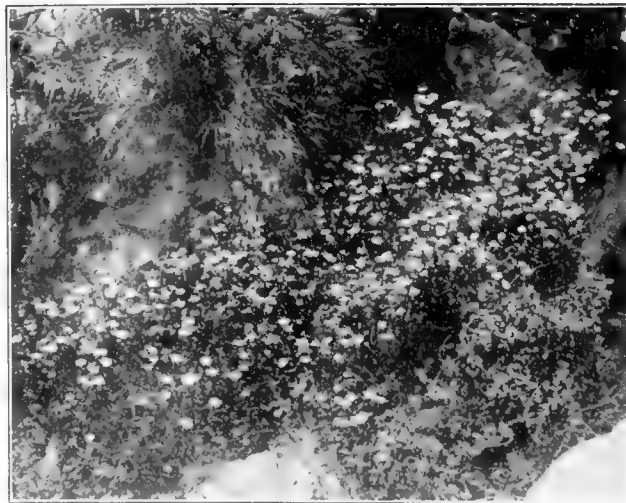
Publicity among the kind of readers reached
by this paper is THE SORT OF PUBLI-
CITY THAT PAYS.

Silene

Of the garden species of silene those of my readers with a European training will recall the very handsome biennial forms *Silene pendula* and *pendula compacta*. Raised from seed and grown in the same manner as *digitalis*, *dianthus* and Canterbury bells they were freely used for spring bedding. Their dense green cushion-like foliage appeared nearly covered with attractive pink or white flowers which made a beautiful showing during May and June. So far I have not had any opportunity to try them in this country nor have I seen any in cultivation.

Of the hardy perennial kinds *Silene alpestris* and *S. Schafta*, both mountain denizens of Europe, merit special mention. As alpines of low habit of growth the pocket of the rockery offers ideal conditions for their full effect. On the herbaceous border their position is near the edge. Perfectly hardy, they withstand the hot summer climate of our Middle Atlantic States in full sunlight admirably well. In partial shade I notice they flower less than in the open. The appearance of a plantation of the spring-flowering white species *Silene alpestris* is of that modest charming gracefulness characteristic to many alpines. *Silene Schafta* producing bright pink blossoms, one of the few midsummer and fall-flowering rock plants, is as indispensable for keeping up the floral effect of the rock garden during the latter part of the season as *Plumbago larpentae*.

The common name of silene is Catchfly, alluding to a viscid exudation on stems and calices of some species.



SILENE ALPESTRIS.

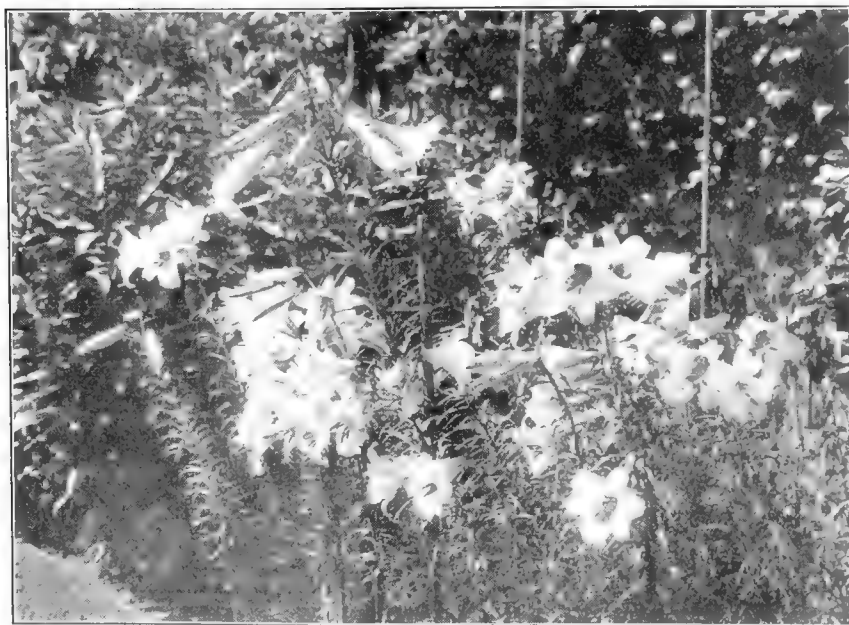
for instance those of our native *Silene virginica*, a vernal representative flowering scarlet red. *Silene acaulis*, *Asterias grandiflora*, *Elisabethae*, *maritima* fl. pl. and *vallesica* are more or less capricious in our climate and therefore chiefly of interest to advanced amateurs and collectors.

Methods of raising and propagation of silenens: spring sowing, cuttings and division of old plants. A light leaf covering is the protection for winter.

Richard Rothe

Glenside, Pa.

Lilium regale



LILIUM REGALE AT MR. DESERT NURSERIES, BAR HARBOR, ME.

If one were confined to growing only one lily a very wise choice would be made in selecting *Lilium regale*. Although only a few years have elapsed since Mr. Wilson brought this lily prominently before the public it has amply demonstrated the many good qualities one must look for in a popular plant suitable for all gardens.

As a hardy border plant I do not know of any lily better adapted for general cultivation. In addition to its usefulness for the hardy flower garden I see no reason why it should not be of great value for forcing purposes, and as an Easter lily I believe it has great possibilities. Its beauty, easy cultivation and freedom from any sort of disease mark it

Arthur. E. Thatcher

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Spraying with Copper

The weather lately has been exceptionally fine for roses, but just how long it will last is a question. It will therefore be well to keep the plants copper plated, which will be a great preventive of blackspot. Just after a crop is cut off is a fine time to apply the copper in the form of the ammoniacal copper carbonate. With only a few buds here and there, growers will have an excellent chance to get at the lower leaves with the copper, which is very important as it is usually these that get the spot first, and from these it is bound to spread to the others. To prepare the mixture we dissolve two ounces of copper carbonate in ammonia, using just enough of the latter to thoroughly dissolve the copper. Then the mixture is added to two gallons of water or about enough for one tank full. Care should be taken when mixing to keep away from cut roses or plants, or not to prepare it in the greenhouse, as the strong ammonia fumes would surely damage the leaves or buds. If the mixture is prepared in the sink, care should be taken not to pour any of the ammonia down the waste pipe, unless all waste pipes connected to the sewer have traps in them, as should be the case, but often the pipes have no traps and the ammonia fumes are very penetrating and will back right up and enter any room or building to which the pipes may be connected. We know a case where an ice box was installed and the drain from it was connected to the sewer which accommodated the greenhouse sink and other plumbing. No traps were put on this drain from the ice box, which was kept cold by a modern ice-making machine. One operation in running this was to draw off any ammonia which would find its way into the oil. This was done by drawing it off into a pail of water through a waste pipe. This pail of waste water and ammonia was poured into the sink as was proper, but there being no traps on the ice box drains, the fumes got into the ice box and ruined a hundred dollars worth of choice flowers. It was thought that the pipes in the cold storage leaked, but this was not the case. Needless to say traps were at once put on all waste pipes from the icebox to the sewer. When applying the mixture to the plants, make sure that the tank is in good condition, and that the hose is good and securely fastened, for if the hose should blow off when the tank is pumped up, the operator would likely get the mixture into his face and might be blinded. Use a

fine nozzle and as much pressure as possible, for the spores of spot are very small and the finer the spray the better.

Cutting Roses

As it is no longer summer, care should be taken not to cut the roses too tight, as they will not open as readily as they did when the weather was warmer. Be careful to get all the buds cut at about the same stage, so that they will be as near alike as possible. They can be allowed to remain on the plants much longer. The larger the buds the greater their value in the market. When cutting, keep the buds together rather than the stems if this is possible. If the ends of the stems are put together there will be some short roses that will get bruised, or punctured by the big thorns of the longer stemmed buds. Where it is impossible to grade right after cutting, and the stems have to be kept together in order that the roses may be put right into water, see that the bunches are not made too big and do not try to crowd too many roses into each vase. When cutting heavy it will pay to cut twice, getting all the long stems first, and then cutting the shorter grades the second time. This will help grading later and prevent the short roses from getting all bruised among the longer stems.

Fresh Water for Vases

Nothing will make roses go back faster than bad water in the vases. Where time will permit it is best to empty the water daily, and then refill with fresh water, giving the jars a good scrubbing about once every week. There is no better time to do this than Saturday morning when all the roses have been shipped and the ice box is empty. Some good soap or washing powder should be used with warm or hot water, and then if possible set the jars out in the sun to dry, being sure that they are well rinsed first. This will sweeten them wonderfully, which is as it should be. All jars should be clean enough to drink out of, and then flowers stored in them will keep fresh. Stagnant water in the vases will kill all the bottom leaves on the cut blooms thus greatly reducing their value. Then, too, roses that have been in bad water are dangerous to handle as the thorns pricking the hands are likely to give blood poisoning, of which there have been several cases in the history of the flower market.

**Buy Your Fall Supplies From Horticulture's
Advertisers. The Benefit Will Be Mutual**

HORTICULTURE

VOL. XXIV

NOVEMBER 4, 1916

NO. 19

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 147 Summer Street, Boston, Mass.

Telephone, Oxford 292.
 WM. J. STEWART, Editor and Manager.

SUBSCRIPTION RATES:

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

	Page
COVER ILLUSTRATION—An Ideal Flower Store.	
NOTES ON CULTURE OF FLORISTS' STOCK:	
Dracaena indivisa—Ericas—Forcing Gladiolus—Smilax—Veranda Boxes for Winter—Reminders—John J. M. Farrell.....	597
SILENE—Richard Rothe—Illustrated.....	598
LILIUM REGALE—Arthur E. Thatcher—Illustrated..	598
ROSE GROWING UNDER GLASS—Spraying with Copper—Cutting Roses—Fresh Water for Vases—Arthur C. Ruzicka.....	599
THE EXHIBITIONS—The Madison Show—Coming Exhibitions—Lenox Exhibition—Iowa State College Exhibition—Mt. Kisco Show—Chicago Floral Art Display	601-602
Boston Autumn Exhibition.....	603
CLUBS AND SOCIETIES—New York and New Jersey Association of Plant Growers—Chrysanthemum Society of America—American Rose Society—Meetings Next Week—Club and Society Notes.....	606
OBITUARY—Fred W. Biermaas—James Arado—Thomas Franks—Henry Schwarz.....	607
SEED TRADE—An Important Court Decision—One Week's Imports—High Vegetable Prices in Wisconsin—Notes	608
OF INTEREST TO RETAIL FLORISTS:	
An Ideal City Flower Store—New Flower Stores—Flowers by Telegraph.....	610-611
NEWS ITEMS FROM EVERYWHERE:	
Chicago, Washington, Pittsburgh, St. Louis.....	612
DURING RECESS—Boston Cut Flower Exchange—Boston Florists' Bowling League—Washington Bowlers	613
FLOWER MARKET REPORTS:	
Boston, Chicago, Cincinnati, New York, Philadelphia, Pittsburgh, St. Louis	615
Washington	617
MISCELLANEOUS:	
No Embargo on Belgian Products.....	605
New Forestry Officer	605
October Song, poetry	605
New Dahlia and Chrysanthemum Types.....	605
The Boy Scout in Agriculture.....	606
News Notes	607
Business Troubles	608
Personal	613
Visitors' Register	617
Combination Vegetable and Fruit Cellar.....	622
Greenhouses Building or Contemplated.....	622
New Corporations	622

A commendable move

The floral art display planned by the Chicago florists, of which advance information is given in our columns this week, has the merit of novelty, as it certainly has that of sound up-to-date business sagacity and enterprise. Every move made by the horticultural interests in the direction of wider publicity for the florists' art and products should be enthusiastically supported by every one connected with the trade, for

only in this manner can this business hold its own and attain its natural growth in the race with other commercial activities of today. Obscurity is about the worst infliction that can be visited upon any industry under prevailing business conditions. Hitherto, most of the effort for publicity in the flower trade has been individual and entirely selfish—and even of that there has been but little. Broader vision and united purpose must now be brought to bear upon the situation, and the upbuilding of the flower trade as an institution rather than of the individual florist must be the objective point. We regard the Chicago project as an admirable one and an example worthy of emulation by the florists of every community in the land.

Maltreating the laurel

From time immemorial it has been the custom to hang garlands of laurel in celebration of great and joyous events in the progress of civilization and to crown with laurel the victor in games of strength and endurance or in recognition of genius. But now, according to the newspaper stories, it appears that another and baser use has been found for this time honored tree. The statement is made that thousands of tons of laurel which up to early August of this year was imported from Italy into Germany ostensibly to make wreaths for the soldier dead, were really employed in the manufacture of asphyxiating gas for use against the allies. So this "mede of mightie conquerors and poetic sage," once a symbol of victory and peace, has in these strenuous modern days been diverted from its former position of honor and instead of serving to decorate the victor has been compelled to assist in dispatching the enemy! Humiliating, indeed, for the venerated laurel and harrowing to the feelings of humanity when not calloused by the awful savagery of mortal strife. May the time quickly come when the peaceful laurel may resume and thenceforth retain for all time its traditional place in civilized life.

Pinched

In a general way, the flower market should be in better condition this season than one year ago when freezing weather held off exceptionally late. Gardens were bright with flowers well into November last year, cannas, salvias, cosmos, ageratum, dahlias, marigolds, petunias and other things of like nature among flowering garden plants being still in fairly good form in the vicinity of Boston at a considerably later date than present writing. Naturally the existence of garden bloom in quantity must affect unfavorably the market price of florists' indoor material and to that extent the present season is favored, but there are other factors which dominate the situation and the low values and depressed demand which a large section of the country is experiencing just now is due probably to several causes, among which the approaching presidential election may properly be included. Fluctuations in the market value of the perishable products of the florist are inevitable and there is a well defined period in fall when a decided sag in prices must be faced every year, yet it is productive of uneasiness to see the values go up in every item entering into the cost of carrying on a greenhouse business while there appears no way in which the returns from the produce can be proportionately advanced. The man who raises wheat, potatoes, dairy products or other food material is now enjoying an enormously enhanced income from his industry which puts him at once in the auto-owning class, but his brother who devotes himself to the ornamental end of horticulture "gets it going and coming," with no means of redress in sight through politics or otherwise.

THE EXHIBITIONS

THE MADISON, N. J., SHOW.

The Twenty-first Annual Flower Show of the Morris County Gardener's and Florist's Society, has passed into history. It was held at James Assembly Hall on October 26 and 27 and was a great success in every way. The weather was ideal, the attendance large, and the quality of the exhibits was of a very high standard. Among the special features was the group of chrysanthemum plants and foliage plants put up by Robert Tyson, supt. for H. McK. Twombly Estate. The blending of colors and the artistic arrangement elicited comment from every side. The big class of vegetables had their exhibitors—Robt. Tyson of Twombly Estate, James Fraser of Kahn Estate and J. G. Walker, Hamilton Farm, Gladstone, N. J. They were three grand settings of vegetables, quality very high and artistic arrangement in each, though differing, was the work of a master hand. The 6 variety classes were none the less attractive; Lewis Barkman, Bernardsville, Thomas Dower, Morristown, and Geo. Fisher were in this class. The stage setting by C. H. Totty was fine, also a corner group by Albert Baldwin. The table decorations were another attractive class. This is judged every year by a committee of ladies. This year the judges were Mrs. Gustav E. Kissel, Mrs. E. C. Fraser, Mrs. W. D. Vanderpool and Mrs. R. H. Williams, and the decisions gave general satisfaction.

The prize schedule contained 93 classes, all of which were competed for with the exception of 13. The first 22 classes were for chrysanthemum blooms. The Bunyard special for 36 blooms 6 var. was won by W. H. Duckham, and Pierson U-Bar special for 12 blooms went to George Fisher. Mr. Duckham also won in the class for 24 blooms 24 var. The Hitchings cup went to Jas. Fraser. Other winners of 1st in the cut bloom classes were Otto Shoch, David Francis, C. H. Totty, Wm. Huckvale, Peter Duff, Robt. Tyson, J. G. Walker and Ernest Wild. C. H. Totty won in all four of the commercial classes.

For roses there were ten open classes, and five for private gardeners. The Traendly & Schenck special was won by L. B. Coddington and Carter's Tested Seeds prize by Robt. Tyson. Other winners in the open classes were L. A. Noe, L. M. Noe estate, C.

Coming Exhibitions

Nov. 8, Philadelphia.—Chrysanthemum Society of America in conjunction with Pennsylvania Horticultural Society.

Nov. 8-9, New London, Ct.—New London Horticultural Society. Annual Chrysanthemum and Fruit Show.

Nov. 8-10, New York.—Annual Chrysanthemum show of the American Institute, Engineering Society Bldg., 25-33 W. 39th St., New York.

Nov. 9-10, Bloomington, Ill.—Fall Flower Festival, Illinois State Florists' Association.

Nov. 9-11, Lancaster, Pa.—Fall flower show.

Nov. 9-12, New York.—Fall exhibit Horticultural Society of New York at Museum of Natural History.

Nov. 10-12, Cleveland, O.—Second Annual Flower Show, Hotel Hollenden.

Nov. 11-19, New Orleans, La.—Flower show.

Nov. 14-15, Providence, R. I.—Flower show of R. I. Hort. Soc.

Nov. 14-18, Baltimore, Md.—Annual Exhibition Maryland Horticultural Society.

Nov. 15-17, Dallas, Texas.—Texas State Flower Show, under the auspices of the Texas State Florists' Association.

H. Totty and Springfield Floral Co. J. G. Walker, Ernest Wild and Wm. Huckvale cleaned up the private classes. Winners in the eighteen carnation classes were A. MacDonald, Ernest Wild, J. G. Walker, Wm. Huckvale, Robt. Sloane, each having several to their credit. Ernest Wild was 1st on violets.

In the plant classes, the Heather-home trophy for group went to Robt. Tyson. Other winners were Peter Duff, specimen chrysanthemum; David Fraser, 6 plants; C. F. Barnet, Lorraine begonia; Lager & Hurrell, orchid table. The Lord & Burnham table decoration awards were: 1st, Samuel Golding; 2nd, David Francis; 3rd, Robt. Tyson.

There were seventeen vegetable classes. The premier prizes for arranged collection went to the following: 1st, Robt. Tyson; 2nd, Jas. Fraser; 3rd, J. G. Walker. The Peter Henderson prizes for arranged collection of six, to Lewis Barkman, Thor Downer and Geo. Fisher, respectively; the four Boddington prizes to Lewis Barkman, Geo. Fisher and Jas. Fraser; the five Thorburn prizes to L. Barkman and W. A. Carter; the five Stumpp & Walter prizes to Jas. Fraser and W. A. Carter. Winners in the fruit classes were Wm. Reid, Wm. Bunny and Wm. Huckvale.

The judges were J. W. Everitt, Glen Cove, L. I.; Peter Duff, Orange, N. J.; John Downing, Reading, Pa.; John Dunn, Lansdowne, Pa., and Frank Traendly, New York city.

LENOX EXHIBITION.

The annual fall show of the Lenox (Mass.) Horticultural Society was held in the Town Hall, October 26th and 27th. The numerous classes for fruit, flowers and vegetables were well filled with produce of the highest quality. One of the most notable features was the fine and extensive display of orchids. Each year sees an increase in the number of exhibitors of these favorites. In the large group class, A. N. Cooley, Pittsfield, Mass., was first with an artistic arrangement which contained many rare and valuable hybrids. A very effective arrangement on a round table won first prize for W. H. Walker, of Great Barrington, who also won in the class for six *Cattleya labiata* and six distinct kinds.

Both in quantity and quality roses and carnations surpassed anything staged at previous exhibitions. Mrs. Parsons, Elm Court Farm, and W. E. S. Griswold were the leading winners in these classes. Mr. Cooley won the society's cup for 10 blooms of chrysanthemums, and was 1st in the class for 24 distinct. Giraud Foster was 1st for a vase of 24 also for 12 distinct kinds. Mrs. Parsons had the best singles and large specimen plants. Elm Court Farm arranged a large circular group of foliage and flowering plants. Specimen foliage plants were well shown by Charles Lanier and M. Salisbury. Mrs. Parsons was 1st for white grapes and Giraud Foster had the best black.

Vegetables and salads were as usual of very high quality. Mrs. Winthrop, Count de Heredia, and Giraud Foster were winners in the principal classes.

There was a large attendance on both days.

The judges were Jas. Stuart, Mamaroneck, N. Y.; E. Beckett, Purchase, N. Y.; H. J. Allen, Hyde Park, N. Y.; J. Tansey, Tuxedo Park, N. Y.; John Marshall, Newport, R. I., and Wm. Scott, Elmsford, N. Y.

J. H. F., Asst. Sec.

MARYLAND WEEK.

This great festival will open at the Armory in Baltimore on Tuesday November 14 at 8.15 P. M. The addresses of welcome will be delivered by Hon. James H. Preston, Mayor of Baltimore, and His Excellency, E. C. Harrington, Governor of Maryland. On Wednesday, at 9.30 A. M. the 19th annual meeting of the Maryland Horticultural Society will be opened. Addresses of value to orchardists will be given throughout the day and on Wednesday. On Thursday, November 16 the Maryland Crop Improvement Association will hold sway and the Maryland Agricultural Society is scheduled for an affiliated meeting. Friday night will be devoted to the Boys' and Girls' Club, following the session of the State Dairymen's Association. Saturday will be monopolized by the Beekeepers' Association.

The exhibition this year will sur-

pass any previous show made by the affiliated associations. The great Fifth Regiment Armory, containing 60,000 square feet, will be crowded with agricultural exhibits of all kinds. The floor plan has been completely changed for this year's show, and it is believed will add to the general attraction of the exhibition. The floral display made by the Baltimore florists under the direction of Chairman George Morrison, will be an especially attractive feature. In addition, a special section will be set apart for the amateurs in Baltimore City and suburbs which will be quite interesting. The exhibit by the members of the respective associations in fruits, vegetables, cereals, dairy products and honey will, it is believed, surpass previous years.

The packers of canned goods in Maryland will make an exhibit in the Armory and on Wednesday evening, discuss questions of mutual interest and importance to the grower and packer of canning crops. This is an enormous industry in this State. A joint meeting of packers and growers for the purpose of discussing questions of mutual welfare is planned.

Postmaster Swenn has kindly consented to install a temporary Post Office in the Armory during "Maryland Week," so that all visitors to Baltimore may have their mail directed to the Fifth Regiment Armory.

The State Board of Forestry will co-operate with the organizations as in the past, and make an especially attractive exhibit, showing the different phases of the Board's work in the State.

The Conservation Commission, State Weather Service and allied organizations will make special exhibits.

IOWA STATE COLLEGE EXHIBITION.

The Annual Fruit and Flower Show of the Department of Horticulture of the Iowa State College will be held Friday and Saturday, November 10th and 11th.

In connection with the show this year a special effort is being made to further the floricultural interests of the state. Florists believe that the people should be educated to use more flowers and it is aimed to teach the people to have a greater appreciation of flowers, which will result in more business for the florists. At the present day the flower show seems to be a very influential means of educating people in the use of flowers. Such a flower show as the college is planning for seems to offer great opportunities for accomplishing such an object, because of the free admission, the great number of students here from all parts of the state and the effort which is to be made to attract people from a wide area.

With this in view several competitive classes are provided which are only open to the commercial florists of Iowa. This plan has already received the approval of some of the florists, who have said they would enter in all classes.

In addition to the classes exhibited by the commercial florists the department is planning on several unique features. Of course there will be an exhibition in the greenhouses Mr. Reardon's fine specimen chrysanthemum plants.

Also there are to be special competitive classes provided for the senior girls in Home Economics, in which the various ways of using flowers in the home will be brought out. For this purpose such classes as Table Decorations, Vase Arrangements and Basket Arrangements are introduced in the schedule. Other interesting exhibits will also be staged with the idea of educating the public. Also disseminators of some of the newer varieties will be asked to send in exhibits of the same.

An effort is being made to make this the best flower show possible. We are all working to a common end—a more general use of flowers. The show will be given wide publicity in the papers in an endeavor to attract as many people as possible.

All entries should be made at once, in order that the final plans may be made for staging and accommodating exhibits. All material for exhibition may be sent express collect. Shipments of flowers should be sent so that they will be received not later than Friday noon, November 10th. Address them to A. S. Thurston, Department of Horticulture, Iowa State College, Ames, Iowa.

MT. KISCO SHOW.

The annual flower show of the Northern Westchester Horticultural and Agricultural Society opened at Mount Kisco, Oct. 27, with the largest showing of flowers and vegetables ever had at an exhibition under the auspices of this society. The award for the best twenty-four cut chrysanthemum blooms exhibited Friday was won by Mrs. E. S. Bayler, who also captured the prize for the largest bloom in the show. Mrs. Bayler won the society's cup for the twelve best chrysanthemums and for the best collection of fifteen varieties of vegetables.

Mrs. A. W. Butler won the prize for the best collection of fruit. Mrs. F. E. Lewis, of Ridgefield, Conn., received the prize for the best eighteen blooms of chrysanthemums. She also was the winner for the best collection of roses. The prize for the best display of single cut chrysanthemums went to Mrs. Eugene Meyer, Jr. Mrs. Meyer also won the award for the best display of eight varieties of vegetables. Other awards were to Mrs. W. J. Sloan, for the best display of twelve varieties of vegetables, and to Mrs. Moses Taylor, for the best dinner table decoration. Among the exhibitors were Mrs. Morton F. Plant, of Groton, Conn.; Mrs. J. H. Flagler, of Greenwich, Conn.; Mrs. J. C. Brown, of Mount Kisco; Mrs. H. J. Hammond and Mr. Maurice Brill.

CATALOGUES RECEIVED.

John Lewis Childs, Flowerfield, N. Y.—Trade Catalogue, season of 1916-1917 of Choice Gladioli, and other summer-flowering bulbs and plants. An up-to-date descriptive list, illustrated.

W. A. Manda, Inc., South Orange, N. J.—Novelty and General Catalogue. A progressive, freely illustrated catalogue of plants, both hardy and tender. Also Bulb Catalogue, including other seasonable stock for fall planting and forcing.

CHICAGO FLORAL ART DISPLAY

THE Chicago Florists Club extends to you and your friends an invitation to attend the Floral Art and Novelty Display, to be held under the auspices of the Chicago Florists Club in the Grand Ball Room of the Hotel La Salle, Madison and La Salle Streets, Chicago, Sunday afternoon and evening, November 12, 1916. The exhibition will consist of a beautiful collection of the newest varieties of cut flowers, chrysanthemums, roses, carnations, flowering and decorative plants, also charming and dainty floral arrangements for all social occasions.

CHICAGO FLORISTS CLUB,

Alex. Henderson, President.

Several thousand invitations like the foregoing have been sent to Flower Lovers of Chicago and vicinity by the Hotel La Salle, Horticultural Society of Chicago, Chicago Florists' Club, the retail florists of Chicago, and a large attendance of the right people is assured.

The retailers of Chicago have been invited by the Chicago Florists' Club to make an exhibit. There will be absolutely no charge for space—no prizes—no awards—no exhibits for competition.

This is to be strictly an Art Show to give the retailer an opportunity to display to the public, novelties in flowers and plants, and feature their adaptability for dainty and charming floral arrangements for all social occasions.

The Grand Ball Room of the Hotel La Salle is an admirable place to hold this exhibition. The room is 46 ft. wide by 140 ft. long, decorated in ivory, gold and old rose. The lighting effect is superb.

The flower show management has arranged to locate all retail exhibits in the center of the Grand Ball Room which will afford the exhibitor every advantage to display his art.

This is the retailers' opportunity to show what is possible with flowers and plants. Only natural flowers and plants are to be used but all kinds of accessories will be permissible.

Why not make this the occasion to name new varieties of cut flowers and plants for the newly elected President and the First Lady of this Grand Land, the U. S. A.?

Growers of novelty plants and cut flowers send us your exhibits, and we shall have artists on hand to arrange same.

The Chicago examining committee of the C. S. A. will be on hand to score new chrysanthemums. Growers sending flowers for this purpose should address same to N. J. Wietor, Chairman.

Novelties of other flowers and plants should be addressed to C. W. Johnson.

Have all shipments for exhibits arrive Saturday afternoon, Nov. 11, or Sunday morning, Nov. 12, sending all shipments express prepaid to the gentlemen mentioned above, in care of The Floral Art and Novelty Display, Grand Ball Room, Hotel La Salle, Chicago, Illinois. Our representative will be on hand to take charge of all shipments upon arrival.

F. LAUTENSCHLAGER—Publicity.

Members of the executive committee of the New Jersey State Horticultural Society and the local reception committee have completed arrangements for the annual convention in Burlington, Dec. 12, 13 and 14. Efforts will be made to attract south Jersey fruit and truck growers to compete.

AZALAEA INDICA AND HOLLAND BULBS**At Auction on WEDNESDAY, NOV. 8, 1916****AT TEN O'CLOCK, A. M.****Also PALMS, FERNS, DRACAENAS, ETC.****The MacNiff Horticultural Co.****52 to 56 Vesey Street, NEW YORK****THE LARGEST HORTICULTURAL AUCTION ROOMS IN THE WORLD****BOSTON AUTUMN EXHIBITION**

The annual display of plants, flowers, fruits and vegetables, formerly known as the Chrysanthemum Show, of the Massachusetts Horticultural Society opened on Wednesday, November 1, at noon and continues until Sunday night, Nov. 5.

It was a "showy show" as regards the plant groups, and in this department the rivals in past shows again "went the limit" in their struggle for supremacy. In Davenport's winning group of foliage and flowering plants covering 300 sq. ft., there was material enough to stock a large greenhouse, and if there is any plant blooming at this date that was not represented in the collection we can't recall it. With the exception of Galen L. Stone's specimen of Garza, the trained chrysanthemum plants were very ordinary. On the other hand the commercial size plants were exceedingly good, those staged by W. H. Elliott being the best finished little beauties we have ever seen in the hall. In all the large plant groups close massing was the rule with the exception of the group covering 150 sq. ft., competition limited to private gardeners, in which Mr. Thatcher, gardener for Mrs. J. L. Gardner, displayed exquisite taste in a graceful arrangement in which specimen lilies and bamboos predominated.

The exhibit which attracted greatest interest and excited most admiration from gardeners and florists particularly was the magnificent group of winter flowering hybrid begonias staged by W. C. Rust, gardener for Mrs. C. G. Weld. It was both novel and magnificent. A fine group of these begonias was shown by Mrs. Montgomery Sears also. Wm. Downs, gardener for E. S. Webster, staged six splendid plants of the hybrid Begonia Optima, which won for him a silver medal. Winter flowering begonias were also staged by Janiten & Wollrath Co., of Waltham. Thomas Roland showed camillias in bloom, and what we feel safe in saying was the most finished group of small crotons ever shown here by a local grower. Eric Wetterlow, gardener for Mrs. Lester Leland, showed Lorraine begonias in grand form and won a silver medal for Begonia Mrs. Peterson.

A. W. Preston was the recipient of a silver medal for Cattleya Lord Rothschild.

schields alba, one of several gems in his orchid group.

The chrysanthemum cut blooms were as a rule of very high quality. The classes for specimen show blooms in which Galen L. Stone swept everything before him with the largest, most uniform and best finished blooms ever shown here were good throughout. C. H. Totty and A. M. Pierson were extensive exhibitors in all classes of collections, with no local exhibitors to compete against them. The pompons and semi-doubles were very nice in these exhibits but there is room for much improvement in the method of displaying these, here as elsewhere.

Among the new chrysanthemums shown were October Herald, Miss Anola Wright, Smith's Imperial and several pompons, from Nathan Smith & Sons, Adrian, Michigan. Wm. H. Waite, a new bronze with monster bloom, was shown by C. H. Totty. Another novelty well shown by Mr. Totty was Golden Champion.

The class for best display showing the various ways in which flowers can be used in home decoration, prize \$50, was entered only by Caplan, the Florist, but the prize was well awarded to his display of neat baskets and other pretty arrangements.

The vegetable and fruit department was a surprise to many, not only in its great extent and the wonderful quality throughout, but also in the manner of staging and the exceeding taste displayed in arrangement. It was by far the most attractive exhibition of fruits and vegetables we have seen put up by the Massachusetts Horticultural Society. Thos J. Grey Company's collection of vegetables was an "eye opener," extending the entire length of one side of the small hall. The carnation exhibits scheduled for Friday, we cannot report on until next week.

List of Prizes and Gratuities Awarded

PLANTS AND FLOWERS. Plants, Foliage and Flowering Plants, group covering 100 sq. ft.: 1st, A. M. Davenport; 2d, W. W. Edgar. Group covering 100 sq. ft. (for private gardeners only): 1st, E. S. J. L. Gardner. Specimen Orchid: 1st, A. W. Preston; 2d, N. T. Kiddler. Orange plants: 1st, W. W. Edgar. Group of Chrysanthemum plants to cover 200 sq. ft.: 1st, A. M. Davenport; 2d, Mrs. J. L. Gardner. Six trained specimen plants: 1st, J. S. B. B. Trained specimen, white: 1st, Galen L. Stone, Garza; 2d, Mrs. C. G. Weld, Garza.

Trained specimen, bronze: 1st, W. H. Wellington, Hortus Tolosanus; 2d, W. H. Wellington, Mrs. William Duckham. Display, arranged with foliage plants (for commercial growers only): 1st, W. H. Elliott; 2d, Kamayama & Sorada. Kentias: 1st, Mrs. J. L. Gardner. Begonias, Gloire de Lorraine or any of its varieties, six plants: 1st, Mrs. Lester Leland; 2d, Galen L. Stone. Any other winter flowering variety, six plants: 1st, E. S. Webster, Optima. Best Chrysanthemum plant on exhibition: Galen L. Stone, Garza.

Flowers.—Henry A. Gane Memorial Fund. Vase of blooms of Chrysanthemum Mrs. Jerome Jones or the Yellow Mrs. Jerome Jones: 1st, James Nicol. Best new seedling Chrysanthemum originated by any other grower: 1st, Nathan Smith & Sons, Miss Anola Wright.

Society's Prizes. Chrysanthemums. Twenty-five blooms, of twenty-five varieties, named: 1st, Galen L. Stone; 2d, W. H. Wellington. Twelve blooms, Japanese, named: 1st, Galen L. Stone; 2d, W. H. Wellington. Twelve blooms, Japanese, incurved, named: 1st, Galen L. Stone. Twelve blooms, Reflexed, named: 1st, Galen L. Stone. Twelve vases, Pompon, distinct varieties, six sprays in a vase: 1st, C. H. Totty; 2d, A. K. Butler. Vase of twenty-five blooms, one or more varieties: Mrs. Alice Sias. Collection of sprays of single Chrysanthemums filling twenty-five vases: 1st, C. H. Totty; 2d, Scott Bros. Best display showing the various ways flowers can be used for home decoration: Caplan, Florist.

Gratuities: Thomas Roland, group of foliage and flowering plants; Miss Cornelia Warren, foliage and flowering plants; Galen L. Stone, trained Chrysanthemum Cheltoni; Mrs. C. G. Weld, trained Chrysanthemum Garza; A. N. Pierson, collection of cut Chrysanthemums; Mrs. J. Montgomery Sears, collection of winter-flowering Begonias; Waban Rose Conservatories, Roses Mrs. Charles Russell and Hadley.

Silver Medal: A. W. Preston, Cattleya Lord Rothschild alba; Mrs. C. G. Weld, collection of winter-flowering Begonias; E. H. Wetterlow, Begonia Mrs. Peterson; E. H. Webster, Begonia Optima.

Honorable Mention: Mrs. J. Montgomery Sears, Begonia Sylva.

Vote of Thanks: S. J. Goddard, Carnation Doris; T. T. Watt, cut flowers in variety; Janiten & Wollrath Co., Begonia Mrs. Heil.

AWARDS FOR FRUITS. Samuel Appleton Fund, Apples, Baldwin: 1st, A. B. Howard & Son; 2d, S. A. Schwartz. Hubbardston: 1st, A. B. Howard & Son; 2d, J. M. Schwartz.

Benjamin V. French Fund.—Apples.—R. L. Greening: 1st, Derby Farm; 2d, David R. Craig.

Benjamin H. Pierce Farm. For new seedling apple of merit: M. J. Cain, seedling of Grayenstein.

Society's Prizes.—Apples.—Bellflower: 1st, C. S. Smith; 2d, W. H. Stone. Delicious: 1st, Derby Farm, McIntosh; 1st, Derby Farm; 2d, A. B. Howard & Son. Northern Spy: 1st, E. R. Farrer; 2d, H. A. Clark. Palmer Greening: 1st, H. C. Fuller; 2d, E. F. Adams, Pound Sweet: 1st, C. V. Fletcher; 2d, Alfred H. Prouty, Roxbury Russet: 1st, M. S. Wheeler; 2d, H. C. Fuller Estate, Sutton: 1st, A. B. Howard & Son; 2d, G. V. Fletcher. Tolman Sweet: 1st, E. R. Farrer; 2d, W. H. Atkins, Tompkins Co. King: 1st, M. J. Cain; 2d, L. L. Cole. Winter Banana: 1st, F. F. Adams; 2d, E. Clifton Whit. York Imperial: 1st, M. S. Wheeler; 2d, M. J. Cain. Any other variety: 1st, Derby Farm, Blue Pearmain; 2d, A. B. Howard & Son, Bailey's. For the best collection of winter fruit.

The Sensation of 1916

Thenanthos

The Wonderful New RED CARNATION

COLOR—Brilliant scarlet of uniform shade.

SIZE—Average over 3½ inches in diameter.

FRAGRANCE—Strong and pleasing.

STEM—Strong, graceful and long.

KEEPING QUALITIES—An excellent keeper and shipper.

SALES—Demand always in excess of supply.

GROWTH—Habit of Scott, but stronger stem.

PROLIFIC BLOOMER—Averaging 30 flowers per plant.

PRODUCTION—Strong producer of cuttings; easy to root, average 90%.

HEALTH—Free from rust or disease.

SEASONABLE—Blooms heavily in December.

FOLIAGE—Grows a bushy, large plant.

PARENTAGE

Enchantress x Red Seedling
This Red Seedling was a cross of

Nelson x Lawson

Every one of these carnations is of such well known excellence that no comment is necessary. The characteristics of SCOTT are very marked in THE NANTHOS.



Evolved by JOHN THEN of Chicago

Winner of the Silver Sweepstakes Cup and First Prize Medal and Ribbons awarded by the Horticultural Society of Chicago for the best seedling carnation on display. These prizes constitute all the possible high honors.

THENANTHOS cuttings will prove an unusually good investment for the up-to-date grower. So nearly perfect is it that it took sweepstakes cup for best seedling as well as medal, certificate and first prize at the last Chicago Flower Show less than a year ago.

PRICES AND DELIVERY

Thenanthos cold grown cuttings will be ready for delivery January 1st, 1917. The demand will prove a heavy strain on the supply. All shipments made in the order received, so let us book your requirements early. **Thenanthos** cuttings, f. o. b. Chicago, Per 100, \$12.00; per 1000, \$100.00. 250 cuttings at the 1000 rate. Write for list of other cuttings.

EXCLUSIVE
DISTRIBUTORS

A. L. RANDALL COMPANY,

Wabash Ave. at Lake St.
CHICAGO, ILL.

apples, not less than six varieties, twelve specimens of each: 1st, Derby Farm; 2d, A. B. Howard & son. Collection of apples arranged for decorative effect: 1st, A. B. Howard & Son; 2d, E. M. Bruce. For the largest and best exhibit of apples, not less than ten varieties and five specimens of each: 1st, A. B. Howard & Son; 2d, Derby Farm. For the best exhibit of apples in trays, not less than five trays and one or more varieties: 1st, A. B. Howard & Son; 2d, Derby Farm. Crabapples, twenty-four specimens, any variety: 1st, Elliott & H. Ward Moore; 2d, Faulkner Farm. Quinces.—Any variety, twelve specimens: 1st, D. M. Rogers, Van Deman; 2d, A. B. Howard & Son, Mammoth. Cranberries.—Collection of not less than three varieties, half-peck of each: 1st, J. Fosdick. Half-peck of any variety: 1st, J. Fosdick, McFarlin. Collection of native and foreign fruit, arranged for effect: 1st, Mrs. R. Goodnough; 2d, F. W. Dahl. Native Nuts.—Collection of not less than four varieties, one quart of each: 1st, Mrs. F. Schulz; 2d, Sarah A. Wheeler.

Marshall P. Wilder Fund.—Native Grapes.—Collection of hardy native grapes, not less than three varieties, three bunches of each: 1st, John Bauernfeind; 2d, Charles W. Libby.

John S. Farlow Newton Horticultural Society Fund.—Pears, Angouleme: 1st, Mrs. Elbridge Torrey; 2d, F. W. Dahl. Anjou: 1st, M. J. Cain; 2d, F. W. Dahl. Bosc: 1st, Dr. W. G. Kendall; 2d, W. Heustis & Son. Dana Hovey: 1st, Dr. W. G. Kendall; 2d, W. Heustis & Son. Lang-her: 1st, E. B. Wilder, Lawrence; 1st, F. W. Dahl; 2d, J. D. Tilton. Sheldon:

1st, F. W. Dahl; 2d, G. V. Fletcher. Vicar: 1st, E. B. Wilder; 2d, F. W. Dahl. Winter Nellis: 1st, F. W. Dahl; 2d, A. B. Howard & Son. Any other variety: 1st, Dr. W. G. Kendall, Seckel; 2d, W. Heustis & Son, Clairgeau. Collection of six varieties of winter pears, twelve specimens of each: 1st, F. W. Dahl; 2d, Edward B. Wilder.

Theodore Lyman Fund No. 2. Plums.—Any variety: 1st, M. S. Wheeler; Prune: 2d, M. S. Wheeler, Lombard.

Gratuities: Derby Farm, apples arranged for decorative effect; M. S. Wheeler, collection of winter apples; Parker Bros., collection of apples; C. A. Stone, Black Alicante Grapes; Dr. W. G. Kendall, collection of grapes; W. C. Winter, collection of hothouse grapes.

Vote of Thanks: John A. Mason, Superb Everbearing strawberry.

AWARDS FOR VEGETABLES.—Beets: 1st, E. L. Lewis; 2d, C. F. Jenkins. Any round variety, six (for cottagers only): 1st, Michael Cahalan, Edmunds; 2d, Michael Cahalan, Early Model. Chard, three plants: 1st, Faulkner Farm; 2d, W. J. Clemson. Brussels Sprouts, four quarts: 1st, E. L. Lewis; 2d, Oliver Ames. Cabbage, any ball-head variety, green, four heads: 1st, Mrs. J. L. Gardner; 2d, E. L. Lewis. Savoy, four heads: 1st, Elliott & H. Ward Moore; 2d, Oliver Ames. Any green variety, three heads (for cottagers only): 1st, J. D. Tilton; 2d, J. D. Tilton. Carrots, any variety, twelve specimens: 1st, E. & H. W. Moore; 2d, Oliver Ames. Cauliflower, three heads: 1st, Frederic Cole; 2d, C. F. Jenkins. Celery, any variety, four heads: 1st, Michael Cahalan, Paris Golden; 2d, E. Jenkins, Paris Golden.

Cucumbers, White Spine type, four: 1st, J. W. Stone. Egg Plant, four specimens: 1st, Oliver Ames. Lettuce, Cos or Romaine, six specimens: 1st, David R. Craig; 2d, James Donald. Mushrooms, twelve specimens: 1st, A. W. Crockford; 2d, Ernest B. Dane. Onions, any variety, twelve: 1st, Ernest B. Dane; 2d, Mrs. Lester Leland. Parsnips, twelve: 1st, W. Heustis & Son; 2d, David R. Craig. Peppers, twelve: 1st, E. L. Lewis, Chinese Giant; 2d, E. L. Lewis, Squash. Pumpkin or Squash, heaviest specimen: Joel A. Thayer. Sugar or Winter Luxury: 1st, Faulkner Farm; 2d, E. & H. W. Moore. Squash, collection, two specimens of each variety: 1st, E. L. Lewis; 2d, Oliver Ames. Tomatoes, any indoor scarlet variety, twelve: 1st, A. W. Crockford; 2d, J. W. Stone. Turnips, collection, six specimens, not less than three varieties: 1st, M. S. Wheeler; 2d, Joel A. Thayer. Salad Plants, best collection: 1st, David R. Craig; 2d, J. A. Nixon. Collection of vegetables, fifteen varieties, not more than one variety of a kind: 1st, E. Jenkins; 2d, Oliver Ames. Eight varieties: 1st, E. L. Lewis; 2d, W. J. Clemson. Six kinds (for cottagers only): 1st, Michael Cahalan; 2d, F. W. Dahl.

Levi Whitcomb Fund.—Potato, best seedling variety not in commerce, grown for at least two years in New England: E. & H. W. Moore, Dibbles Russet.

Society's Prizes, for the best display of vegetables put up in glass jars: 1st, Hermine Schulz.

Gratuities: Faulkner Farm, decoration of kale and parsley; Thomas J. Gray Co., display of vegetables; E. L. Lewis, display of vegetables.

FORCING RHODODENDRONS

Duty Paid delivered F. O. B. New York, \$40 per case containing SEVENTY well-budded plants 18-22 inches

TEN PLANTS each of the following SEVEN FINE varieties: Fastuosum Fl. Pl. Pelopidas, Kate Waterer, Strategist, John Walter, Mad. Felix and PINK PEARL to arrive late in November.

BOOK YOUR ORDERS IMMEDIATELY—TERMS C. O. D.

FELIX & DYKHUIS { Nursery Stock, Boxes, Laurels, Rhods, Roses, Etc.
Boskoop, Holland

DRACAENA CANES in leading Commercial varieties, Domestic Mammoth Sunflower Seeds, Perennial and Italina RYE GRASSES, English Vegetable, Farm and Flower Seeds.

COLIN CAMPBELL, Importer, 90 Nassau Street,
NEW YORK CITY

NO EMBARGO ON BELGIAN PRODUCTS

Wm. F. Gude, Washington representative of the S. A. F. received on Monday, Oct. 30, from the State Department the letter of which the following is a copy. This letter, it will be noted, is in reply to Mr. Gude's communication to the Honorable Secretary of State under date of Sept. 15th last, since which time he has not heard a word. Anyhow the azaleas are coming and Mr. Gude's efforts seem to have been fruitful.

Department of State
Washington
Oct. 27th, 1916

Mr. William F. Gude,

Sir:—Referring to your personally expressed desire for information relative to the importation of Azaleas and similar goods of Belgian origin, you are informed that the Department has received a report by cablegram dated October 25th, 1916, from the American Embassy at Berlin stating, in substance, that the German foreign office has received a statement from the Governor General in Belgium that no objection exists to the exportation to the United States of horticultural products. Only a small quantity remains for shipment this year as, according to a report from economic committee at Ghent, several hundred thousand francs' worth of flowers were shipped to this country some six weeks ago.

The statement that this year's exportation was not allowed by German authorities is reported to be due to a misunderstanding. This year's exportation was effected through individual applicants and not through the intervention of the Syndicate des Horticultures Belges.

Very truly yours,

MARION LETCHER,
Acting Foreign Trade Advisor.

NEW FORESTRY OFFICE.

Practical forestry management has been developed to such proportions in Massachusetts, under the administration of State Forester Rane, that it has been decided to establish a state forestry office in the western part of the state for the convenience of land owners in that section. C. R. Atwood, who is a graduate of the University of Maine, and for some time has been an assistant to Paul D. Kneeland in the Boston office of the state forestry, has been selected for the position. He will have

headquarters in Springfield, in the office of the Hampden County Improvement League, free of rental, and will be at the service of the entire western part of the state for the improvement of the forests. His work will come under the general direction of Assistant State Forester Cook in the Boston office.

It is believed that through this new office prospective thinnings and scientific lumbering jobs, which are undertaken in part for the immediate utilization of the matured or undesirable trees, and in part for the improvement of the forest stands, may be supervised more economically than through the Boston office.

NEW DAHLIA AND CHRYSANTHEMUM TYPES.

During the dahlia season just closed among the really good breaks from the established forms is a ruby red seedling raised by W. A. Manda, which he regards with sufficient favor to name for himself. It is apparently the forerunner of a new class of dwarf bedders which, as soon as Mr. Manda's ambition to develop white, yellow and scarlet varieties of the type has been attained, should fill a very useful place in garden work. Plants from cuttings made in August were at the time frost struck them, in middle October, two feet high and two to three feet through, each bearing a number of enormous blooms about 9 inches across. The flowers show decorative

and cactus blood with a strong Jaurez character. The stem is very short-jointed, the flower facing upright and nestling in a mass of strong foliage somewhat after the fashion of a Mrs. Jerome Jones chrysanthemum. Visitors at South Orange are much impressed with the possibilities of this new dahlia. Mr. Manda is also working up a new breed of dwarf hardy chrysanthemums, with Garza as a seed parent and already has a good collection with the desired habit and very interesting.

OCTOBER SONG.

Across the heaven white clouds are sailing,
And winds are walling among the trees;
All southward flying, the birds are calling,
And leaves are falling with every breeze.
The dry reeds rattle, the dead leaf quivers,
The hoar frost shivers across the lawn;
The thrush and catbird that erst made riot
Now sadly quiet await the dawn!
Deep in the woodlands in noisy caucus,
With voices raucous convene the crows;
Across the meadows, like parting lovers,
The killdeer plovers wail out their woes.
Here where the flicker, of home enamored,
All summer hammered, at last intrudes
The graceless sparrow, who lights and chatters
Of ribald matters, and useless broods!
And yet my outlook is not uncheerful,
Nor wholly tearful are autumn days;
Though flowers are faded and birds are going,
My glad heart glowing can sing their praise;
While in my heart, dear, your voice is ringing,
The birds are singing all winter through
And in your face, love, earth's loveliest flower,
Through each dull hour is mine to view!
Ted Robinson, Cleveland Plain Dealer.

BULBS FOR SALE

Von Sion, Single Nose.....	100	1000
Golden Spur, Single Nose.....	\$1.10	\$9.00
Emperor, Extra large Bulbs.....	1.10	9.00
Poeticus Ornatus, Single Nose.....	1.50	12.00
Poeticus Ornatus, Double Nose.....	.40	3.00
Grand Soleil d'Or, Yellow Paper White.....	.60	4.50
Freesia Purity.....	1.25	10.00
Single Late Tulip Gesneriana Lutea.....	.75	6.00
Fairy Queen, Heliotrope color with Yellow.....	.75	6.50
Single Superfine Mixed.....	.90	8.00
Spiraea Queen Alexandra.....	.60	4.50
	6.00	

Big Surplus of 225,000 Bulbs Coming. Send for Our List of Fall Bulbs and Spring List of 150 Varieties of Gladiolus.

THOMAS COGGER
229 Laurel Street - - MELROSE, MASS.

American Representative for C. KEUR & SONS, HILLEGOM, HOLLAND.

BULBS BOXWOODS AT AUCTION

Do Not Forget Salesdays — Monday and Thursday
Consignments Solicited

JOHNSON & MILLANG, Inc., Auctioneers

Coogan Building, 55 57 West 26th Street, New York
(Under Cut Flower Exchange)
Salesdays Monday and Thursday at 10 A. M.
10,000 square feet devoted to our auction business
WRITE FOR CATALOGUE

CLUBS AND SOCIETIES

NEW YORK AND NEW JERSEY ASSOCIATION OF PLANT GROWERS.

The members of this association enjoyed their annual visit of inspection to the various establishments of the New Jersey members on October 25. The party numbered twenty-three and the usual good time was had. All the places visited were found to be in elegant shape and promising for the coming plant season. These included the following establishments:

F. H. Dressel, Weehawken; H. C. Steinhoff, West Hoboken; Henry Baumann, West Hoboken; J. H. Fieser, North Bergen; H. Schmidt, North Bergen; Herman Scholzel, New Durham; Paul Rickert, North Bergen; Lehnig & Winnefeld, Hackensack; Madsen & Christensen, Woodridge; Julius Roehrs Co., Rutherford; Bobbink & Atkins, Rutherford; Paul Fischer Woodridge; Emil Savoy, Secaucus; Carl A. Woerner, Secaucus.

CHRYSANTHEMUM SOCIETY OF AMERICA.

The following report of new chrysanthemums exhibited at Cincinnati, Ohio, Oct. 28, has been submitted by the committee appointed by the society:

By The E. G. Hill Co., Richmond, Ind.: Name of variety, Richmond; color, yellow; Inc.: points com., 87; name of variety, Nephotos; color, white; Inc., Jap; points com., 86.

By Elmer D. Smith & Co., Adrian, Mich.: Name of variety, Yondota; color, pink; Jap. Inc.: points com., 86. Name of variety, Smith's Imperial; color, white, Inc.: points com., 95. Name of variety, October Herald; color, golden bronze; Jap. Refl.; points com., 90.

By C. C. Pollworth Co., Milwaukee, Wis.: Name of variety, Mrs. C. C. Pollworth; color, yellow; Inc.: points com., 86.

CHAS. W. JOHNSON, Sec'y.

AMERICAN ROSE SOCIETY.

The following described rose has been offered for registration by Fred. Breitmeyer, Mount Clemens, Mich.:

Raiser's Description.

"Rose, Pink Ophelia. Color, a beautiful shade of rose pink. A sport from Ophelia, but a stronger and more vigorous grower than the parent. Originated with us two years ago."

BENJ. HAMMOND, Sec.
Beacon, N. Y., Oct. 31, 1916.

Meetings Next Week

Monday, Nov. 6.

Bernardsville Horticultural Society, Horticultural Hall, Bernardsville, N. J.
Elberon Horticultural Society, Fire Hall, Elberon, N. J.
Houston Florists' Club, Chamber of Commerce Rooms, Houston, Tex.
Montreal Gardeners' and Florists' Club, Montreal, Canada.
New Bedford Horticultural Society, New Bedford, Mass.
Washington Florists Club, Washington, D. C.

Tuesday, Nov. 7.

Florists' and Gardeners' Club of Holyoke and Northampton, Mass.
Lake Geneva Gardeners' and Foremen's Association, Horticultural Hall, Lake Geneva, Wis.
Los Angeles County Horticultural Society, Los Angeles, Cal.
Paterson Floricultural Society, Y. M. C. A. Bldg., Paterson, N. J.
Philadelphia Florists' Club, Horticultural Hall, Philadelphia, Pa.
Pittsburgh Florists' and Gardeners' Club, Fort Pitt Hotel, Pittsburgh, Pa.

Wednesday, Nov. 8.

Cincinnati Florists' Society, Jabez Elliott Flower Market, Cincinnati, O.
Dutchess County Horticultural Society, Falkill Bldg., Poughkeepsie, N. Y.
Lenox Horticultural Society, Lenox, Mass.
Morris County Florists' and Gardeners' Society, Madison, N. J.
Nassau County Horticultural Society, Pembroke Hall, Glen Cove, N. Y.

Thursday, Nov. 9.

Menlo Park Horticultural Society, Menlo Park, Calif.
New London Horticultural Society, Municipal Bldg., New London, Conn.

Friday, Nov. 10.

Connecticut Horticultural Society, County Building, Hartford, Conn.
Westchester and Fairfield Horticultural Society, Doran's Hall, Greenwich, Conn.

Saturday, Nov. 11.

Dobbs Ferry Gardeners' Association, Dobbs Ferry, N. Y.

There is to be a guessing party in Washington Tuesday evening, November 7, when the members of the Florists' Club get together for the regular monthly meeting. In-as-much as the date of the meeting is also the date of the national election it is not expected that there will be very much other than politics discussed at that time. The members are to be invited to submit their guesses on how the elections will go.

CLUB AND SOCIETY NOTES.

Secretary Ammann of the Illinois State Horticultural Association informs us that all the indications point to a grand exhibition at Bloomington on November 9 and 10. Flowers for this event should be shipped to the Coliseum, in care of Washburn & Sons.

The Horticultural Club of Boston had as guests at its monthly meeting at the Parker House on Wednesday evening, Nov. 1, H. A. Barnard, representing Stuart Low & Co., England; W. C. Stickel, president of the Flower Exchange, and Col. W. W. Castle. The table decorations of chrysanthemums, roses and carnations were by Peter Fisher.

At its meeting on October 25, the Newport (R. I.) Horticultural Society declined the invitation of the Newport Garden Club to hold a joint exhibition next summer, with the Newport Garden Association and the Garden Club, the Garden Association having already declined the invitation on the ground that it had already made its plans for the summer. James Robertson, gardener for Mrs. T. O. Richardson, exhibited a seedling dahlia, named Mrs. Otis P. Chapman, and the society awarded it a first-class certificate.

THE BOY SCOUTS IN AGRICULTURE.

The requirements as listed below, for a Boy Scout badge of merit in agriculture show a well devised plan for encouraging boys to attain proficiency in practical things. To obtain a merit badge for agriculture, a scout must:

1. Explain the nature of soil, its texture, its need of water, of air, and of plant and animal life; what the soil does for the plant, and how the soil may be improved.
2. Make a seed tester and test the germination of three chosen varieties of seed—100 seeds of each variety.
3. Identify and describe ten common weeds of the community and tell how best to eliminate them.
4. Identify six common insect pests, tell what plants they usually infest, and how best to control them.
5. Have a practical knowledge, for his locality, of plowing, cultivating, harrowing, disking, draining, and harvesting, and the purposes of each. Describe also the farm implements used in each case.
6. Tell how plants are propagated—by seeds, roots, cuttings, tubers, buds and grafts. Explain where plants get their food and how they grow.
7. Explain how to read a weather map, know weather signals, and the making of local observations.
8. Name and distinguish ten common birds of his locality, and state their value to the farmer.

Obituary

Fred W. Biermaas.

Fred Biermaas, who died in Philadelphia on October 26th, was a graduate of the John Burton establishment at Chestnut Hill. Later he was connected with Charles E. Meehan.

James Arado.

James Arado, for many years manager of the cut flower department at C. Young & Sons, St. Louis, Mo., passed away after a lingering illness. Many friends among the florists sent floral tributes.

Thomas Franks.

Thomas Franks, founder of the firm of Thomas Franks & Son, florists, Champaign, Ill., died Oct. 18. He was born in Westbury, Eng., seventy-two years ago and came to this country at the age of 21. He was at one time gardener of the University of Illinois, also Park Commissioner at Champaign. He was a charter member of the Society of American Florists.

BAILEY'S NEW STANDARD Cyclopedia of Horticulture

Six large quarto volumes.
More than 3,600 pages. 24
exquisite full-page color
plates. 96 full-page sepia
halftones and more than
4,000 text engravings. 500
collaborators. Approx-
imately 4,000 genera, 15,000
species and 40,000 plant
names.

The new Standard Cyclopedia of Horticulture has been freshly written in the light of the most recent research and experience. It is not merely an ordinary revision or corrected edition of the old Cyclopedia, but it is a new work from start to finish with enlarged boundaries geographically and practically; it supersedes and displaces all previous editions or reprints of every kind whatsoever. It is both an Encyclopedia and a Manual, for with the aid of its Synopsis and Key, amateur and professional alike may quickly identify any plant, shrub or fruit contained within the set, and then receive expert instructions for its cultivation. Price \$6.00 per volume. Five volumes have now been issued and the others will follow in succession. Order from

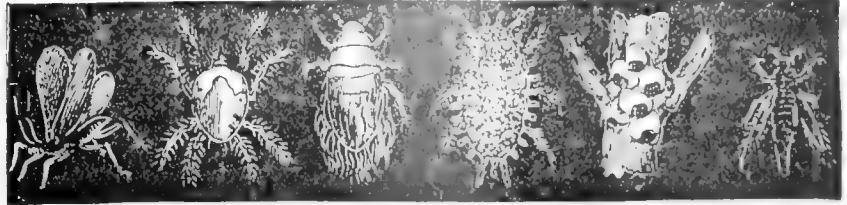
HORTICULTURE PUBLISHING CO.

147 Summer Street, Boston, Mass.

Hammond's Thrip Juice No. 2

REGISTERED

A Contact Insecticide, Useful and Reliable, Used for 30 Years in Green-houses, and on Plants, Grape Vines, Trees and Shrubs



Some common Sucking Insects, magnified.

HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.

Henry Schwarz.

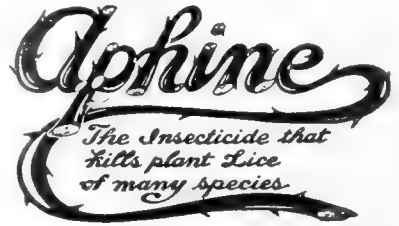
Henry Schwarz, the well known Cincinnati and Norwood florist, died on Saturday, October 28th, after an illness that has lasted for some time. The burial was Tuesday, October 31st, at Evergreen Cemetery. Mr. Schwarz was born on December 8th, 1864, in Germany. In 1882 he came to this country. After eight years spent in working at Knightstown, Anderson and Richmond, Indiana, he went to Cincinnati and settled on Price Hill where he started a florist business. In 1901 he moved his business to Norwood where he was established up to the time of his death. Mr. Schwarz was very enterprising and thorough and very successful in business. His kindness and consideration toward others made for him numerous life-long friends who mourn his death. In the Cincinnati Florists' Society he was prominent and had held the presidency and other offices. He is survived by his widow, Mrs. Ophelia Schwarz, and Ed. Schwarz, his son.

NEWS NOTES.

Philadelphia, Pa.—The florist shop of M. J. Callahan, 3924 Market St., was damaged by fire on Monday, Oct. 23d. The loss is estimated at \$500.

Salem, Mass.—James Ward of Peabody was sentenced to four months in the House of Correction on Nov. 1 by Judge Morton in the United States District Court for using the mails in a scheme to defraud. Ward endeavored to collect commissions from various nurseries in New York State on fictitious orders for plants and shrubs.

Springfield, Mass.—There was a \$4,000 fire in the basement of Mark Aitken's flower shop on Oct. 26. The fire was seemingly put out, but in the evening a second alarm was sounded. The fire had crept up in the walls into the second and third stories. The firemen had a real battle this time. Capt. William Boss of the fire department sustained serious injury when an axe slipped from the hands of a fireman and cut the artery of his right thumb. Mr. Aitken was the heaviest loser. The total loss is estimated in the neighborhood of \$4,000.



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SOALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



**IMP.
SOAP SPRAY**

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON



NIKOTEEN

For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer For It.

NICOTINE MFG. CO.
ST. LOUIS

When writing to advertisers kindly mention **HORTICULTURE**.



LILIUM FORMOSUM

LILIUM FORMOSUM BULBS

A good investment for the Florist: a type that will produce splendid results with little care and attention. Our bulbs are extra fine, none better at any price. A late shipment of the following sizes just received. Order early as stock is limited.

GREEN STEM TYPE (For Early Blooming).

The best type for early forcing, for flowering in January, February and March.

	Bulbs in each case	Doz	100	1000
8 to 10 inches.....	200	\$1.30	\$8.75	\$82.50
9 to 10 inches.....	180	1.60	10.00	92.50

DARK STEM TYPE (For Easter Blooming).

This strain for March and April bloom has given universal satisfaction.				
7 to 9 inches.....	275	\$1.15	\$7.00	\$65.00
8 to 10 inches.....	200	1.50	9.50	90.00
9 to 10 inches.....	180	1.80	12.50	105.00
10 to 12 inches.....	150	2.25	15.00	142.50

LIL. GIGANTEUM, LIL. MULTIFLORUM and all other Seasonable Bulbs. Send for Wholesale Catalog.

HENRY F. MICHELL CO., 518 Market Street
PHILADELPHIA

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

An Important Court Decision.

The following is a copy of the U. S. Court decision which has just been handed in the suit for damages against the J. Chas. McCullough Seed Co. of Cincinnati for the use of the trade name "Acme." It will no doubt be of considerable interest to the seed trade.

In the District Court of the United States, Southern District of Ohio, Western Division.
No. 19

OPINION.

E. W. Conklin & Son, Inc., Plaintiff,
vs.

The J. Chas. McCullough Seed Company,
Defendant.
Hollister, J.

Action for infringement of trade mark and for unfair competition.

At the close of the argument, the court expressed the opinion that the defendant's claim of prior use of the word "Acme" and the letters "J. C. McC." in connection therewith upon bags and other receptacles in which timothy seed had been sold by J. Chas. McCullough, whose rights in 1913 were transferred to the defendant, was clearly established. A decree for defendant would have been entered then, but counsel for plaintiff urged earnestly the point that the use by defendant and its predecessor of the word "Acme" and the initials of "J. C. McC." was shown by the testimony to indicate merely grade or quality.

There was much testimony on the part of defendant's witnesses that the word and the initials did indicate the best quality and grade of timothy seed. If the evidence disclosed nothing else than that, the plaintiff would be entitled to a decree. But it discloses a great deal more. The use of the word "Acme" and the initials of "J. C. McC." indicate also source or origin, as well as excellence, and they were known to the trade as indicating both quality and origin. This being so, the plaintiff's case cannot be successfully maintained and the bill will be dismissed at plaintiff's costs.

The respondent used "Acme" and the initials "J. C. McC." for all kinds of grass seeds, while the plaintiff used "Acme" and the initials "E. W. C." only as a trade mark for timothy.

In view of the conclusion reached on the merits of the case it will not be necessary to decide the question whether or not the allegations in the bill of complaint used

SHAMROCK TRUE IRISH

Trade packet 25 cts., oz. \$1, ¼ lb. \$3, lb. \$10

5% Discount, Cash with Order.

ARTHUR T. BODDINGTON CO., Inc.
128 Chambers Street, New York

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes
Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of
Commerce Bldg., Boston, Mass.

"Acme" with the initials "E. W. C." for all kinds of grass seeds, since it is untrue, would warrant a dismissal of the bill for that cause.

Munn & Munn and Walter F. Murray
Attorneys for Plaintiff.

Pogue, Hoffheimer & Pogue,
Attorneys for Defendant.

One Week's Imports.

Imports at the port of New York, for horticultural material, for the week ending Oct. 20th, were recorded as follows:

Bulbs—France, \$1,290; Netherlands, \$201,614; England, \$419; Bermuda, \$6; Japan, \$24,649.

Plants—Belgium, \$6,469; France, \$980; Netherlands, \$5,676; England, \$1,338; Scotland, \$176; Bermuda, \$1; Trinidad, \$102; Colon, \$1,475.

Red clover seed—France, \$13,571.

Grass seed—Ireland, \$3,840.

Other seeds—France, \$8,529; Netherlands, \$90; England, \$10; Japan, \$12,559.

Nitrate of soda—Chile, \$77,708.

Other fertilizers—England, \$16,591.

High Vegetable Prices in Wisconsin.

Wisconsin cabbage growers are receiving about \$35 a ton, as against \$6 to \$10 a ton last year. A steady advance has been noted in the onion market. Growers are getting at wholesale from 75 cents to \$1.50 a bushel for first grade. Squash is rated now at about \$40 a ton, while turnips are

selling at from \$2 to \$2.50 a barrel. Three grades of navy beans, the marrowfat, medium, and pea, are quoted at \$5.70 a bushel—a price not recorded in recent years. The prevalence of "anthracnose" disease and the hot weather, which kept the beans from setting properly, is said to be one of the causes for the high prices.

The high price of vegetables in general is given by J. R. Hepler of the University of Wisconsin, as one of the causes for increased potato prices. "Last year 'average' to 'low' prices prevailed in the vegetable market," explains Mr. Hepler, "and as a result many growers quit raising vegetables, which sent prices up again this season. Probably next year will see another reaction to low prices following a larger crop, induced by better market conditions this fall."

Notes.

Grand Rapids, Mich.—A. J. Brown Seed Co. has purchased the business of the Jones Seed Co.

As is generally known in the seed trade there is a temporary embargo on grass seed from Holland, ever since July 31, 1916.

BUSINESS TROUBLES.

Stillwater, Minn.—Francis Berry, grower, was adjudged bankrupt October 17th.

Lilium Harrisii Bulbs

	Per 100	Per 1000
5 in. to 7 in.	\$4.50	\$36.00
7 in. to 9 in.	8.00	72.00

**PAPER WHITE NARCISSUS
GRANDIFLORUS**

Prices on Application

WE OFFER to FLORISTS a
CHOICE SELECTION of HYA-
CINTHS, TULIPS, Etc. Etc., for
forcing or outdoor planting.

Send us a list of your require-
ments and we will give you at-
tractive special prices.

J. M. THORBURN & CO.

53 Barclay Street
Through to 54 Park Place
NEW YORK CITY

KELWAY & SON

SPECIALIZE IN

SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or
Forward

Only Address, LANGPORT, Eng

Burpee's Seeds
PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragons on
the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.

PHILADELPHIA, PA.

My new Price List of
WINTER-ORCHID-FLOWERING SWEET
PEA SEED

Has been mailed. If you have not received
a copy, send me postal. Part of new crop
will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

**FARQUHAR'S GOLD MEDAL
CYCLAMEN**

Awarded Gold Medal of
the Massachusetts
Horticultural Society

Strong Plants from
4 inch pots, for
delivery now, at
\$25.00 per 100.

R. & J. FARQUHAR & CO., 6 South Market Street
BOSTON

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.**LILIUM GIGANTEUM SEEDS, BULBS, PLANTS**

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

NEW CROP SEEDS

PANSY SEED. Giant flowering florist mix-
ture. American grown. (Best money can
buy.) 50c. per tr. pkt., ¼ oz. \$1.50, oz. \$5.00.
PANSY SEED SPECIAL. Greenhouse mix-
ture for forcing; long-stemmed. \$1.00 per
tr. pkt., ¼ oz. \$1.50, ¼ oz. \$2.50; oz. \$3.00.
SWEET PEAS. Zvolanek's Orchid Flower-
ing in all varieties. I have his agency
this season.

ROMAN J. IRWIN,
Plants, Cuttings, Bulbs, Seeds.
108 West 28th Street - New York.

THOMAS J. GREY COMPANYSEEDS, BULBS AND IMPLEMENTS
WHOLESALE AND RETAIL.

Reselected Strains in Seeds.
Improved styles in Implements.
Catalogue upon application.

29 So. Market Street
BOSTON, MASS.

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

AND
Florists' Necessities**AMERICAN BULB CO.**

172 N. Wabash Ave., Chicago, Ill.

**LILIUM FORMOSUM
LILIUM HARRISII
LILIUM GIGANTEUM**

Prices on Application. Write for 1916
Bulb Catalog.

JOSEPH BRECK & SONS' CORP.
47-54 North Market St., Boston, Mass.

**W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries**

166 W. 23rd St., NEW YORK

GARDEN SEED

BET. CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season.
As well as a full line of Garden Seeds, will
be quoted you upon application to

S. D. WOODRUFF & SONS

82 Day St., NEW YORK and ORANGE, CONN.

ALEX. McCONNELL611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.



"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.
BOSTON

FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

MAX SCHLING

22 West 59th St.
Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York
Telephone 1562-1563 Columbus

Of Interest to Retail Florists

A MODEL CITY FLOWER STORE.

It has been our pleasure and privilege to call attention in previous issues to the new floral establishment of J. H. Small & Sons on Madison avenue, New York City, as a model of serviceableness and exemplifying the highest measure of dignified elegance in modern flower store equipment. One notable feature not heretofore mentioned is the method of caring for the series of plant boxes which adorn the facade of the building as shown in our cover illustration in this issue. The watering of such arrangements conveniently and without damage to property or persons below is in most cases a problem. In this instance a system of perforated pipes has been installed with holes about four inches apart. These pipes are perforated and valves, on the inside of the building, control each tier, with a drip arrangement to guard against freezing up of the water in the pipes. This system affords an even distribution of the water and obviates the use of hose or ladders. It has worked out with excellent results.

NEW FLOWER STORES.

Holland, Mich.—Henry Ebelink.
New York, N. Y. Harry Ramm, 359
Madison, Ave.

Los Angeles, Cal.—Our Flower Shop,
651 S. Hill St.

Chicago, Ill.—Randolph Floral Co.,
187 N. State St.

Mansfield, O.—Stuhldreher Bros.,
West Fourth St.

Newark, N. J.—Charles Luthy,
branch store, 459 18th Ave.

Chicago, Ill.—Marquette Floral
House, 6747 S. Halsted St., Louis
Sielsky, prop. Paradise Floral Shop,
removing to 6824 S. Halsted St. Bohannon
Floral Co., removing to 57 E.
Monroe St.

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. - - - - BOSTON
Telephone Main 54.

**JOHN BREITMEYER'S
—SONS—**

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good
sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery
Association.



GUDE BROS CO
1214 F ST NW
WASHINGTON DC

GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE

National Capital

At your service to deliver flowers
or designs on order by telegraph
or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 306. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD
NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction

MEMBER F. T. D. A.

CHICAGO WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Points

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1836 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO

Flowers of Every Kind in Season

HESS & SWOBODA

FLORISTS
Telephones 1801 and L 1832.
1415 Farnum St.,

OMAHA, NEB.

S. A. ANDERSON

440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS

For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.

WORCESTER, MASS.

Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Member Florists' Telegraph Delivery Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 108 State St.
Albany, N. Y.—The Rosery, 23 Steuben St.
Albany, N. Y.—William C. Gloeckner, 97 State St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th St.
Cleveland, O.—The Smith & Feters Co., 735 Euclid Ave.
Denver, Col.—Park Floral Co., 1843 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.
New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—A. T. Bunyard, 413 Madison Ave., at 48th St.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. B. Pier-son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—H. F. A. Lange.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

REUTER'S

Members Florists'
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence
ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only
THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.
ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.



KERR ORDERS FOR TEXA
HOUSTON, TEXAS
The Florist Member F.T. D. Association

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

P. J. Foley, of the Foley Greenhouse Manuf. Co., is taking a business trip through the East.

The ten-cent stores are selling large, fine looking chrysanthemums. The fact that they are without foliage indicates long distance shipments.

The American Bulb Co. has added G. Marshut to its sales force. This firm has received a word that a shipment of hardy lilies had reached this country.

The A. L. Randall Co., who are handling the *Thenanthos* carnation report splendid sales of this great new red variety. Many Chicago florists, who have no time in securing stock. See advertisement with prices on another page.

This season the arrivals of stock from across the water are of more than passing interest owing to the extra hazard in ocean traffic. A car load of bay trees has just reached Chicago from Boskoop, having been just one month en route.

J. Mangel's store window attracted such a crowd that it was difficult to learn the cause. Beautiful specimens of live ducks were wading in the water which Mr. Mangel keeps running there a large part of the year, and it is the one thing of which passers by never seem to tire.

J. A. Budlong Co. has signed a lease for the corner store adjoining the one they have occupied, and the partition has been removed. They now have a very light corner store with sufficient floor space to make work easy, and can easily take care of their large shipping trade.

Mrs. A. Fulsinger, who has been in the retail store of J. Steinmetz, is purchasing stock for the opening of a flower store for Mrs. Wiedabech, Racine, Wis., of which Mrs. Fulsinger will have charge. A store was formerly operated in this building and since the death of the proprietor, J. Dourgoise, last summer, Mrs. Wiedabech has had it overhauled and improved, and is going into the business herself.

Some new phases of the subject of the respective rights of wholesalers and retailers to buy and sell as they please have been freely discussed this week when the chrysanthemum market was ruined by California flowers. The consensus of opinion seems to cling to the old adage that "It's a poor rule that won't work both ways," and if "red violets" is wrong for wholesalers it's equally wrong for retailers to buy direct from the growers of the western coast.

The Foley Greenhouse Manuf. Co. has just completed further improvements in their offices. The entire factory has been practically built within the three years they have occupied it and is now equipped to handle work with all possible dispatch. Among the recent work completed are two houses 40 x 225 ft. for Frank Schramm at Crystal Lake, Ill., a duplicate of which they built one year

ago; two houses, 40 x 200 ft., for Elmer Sigwald at Arlington Heights; one house, 40 x 200 ft., and one 40 x 54 ft., and propagating house 12 x 50 ft., for L. C. Busse, Mt. Prospect, Ill. Material is now being shipped to Gregg Station, Ill., for seven houses, 28 x 300 ft., for Bassett & Washburn. All have the Foley channel gutters with their bar clips.

WASHINGTON.

C. L. Jenkins & Son, of Suitland, are commencing to cut some fine *Delphinium belladonna*. They report that their crops of mignonette and stevia are showing great promise.

The annual chrysanthemum show of the Department of Agriculture was held during the week. As in previous years a large army of Washingtonians and people from nearby cities visited the exhibition. There is also a display of cactus plants, many of which came from the Border where militiamen of the District of Columbia are now doing duty and for this reason they also attracted a great deal of attention.

The State of Florida having designated Gainesville, Fla., a place of terminal inspection of plants and plant products under the provisions of existing law, postmasters have been informed that packages containing plants or plant products may be accepted for mailing only when plainly marked so that the contents may be readily ascertained by an inspection of the outside thereof. The law makes the failure so to mark such parcels an offense punishable by a fine of not more than \$100.

Gude Bros. Co. furnished the decorations for the wedding of Margaret Preston Draper, daughter of the late General William Franklin Draper, and Prince Andrea Boncompagni, of Rome, Italy. From the entrance to the ball room the guests passed through a lane of flowers, palms, and ferns, numerous white chrysanthemums and American Beauty roses, combining to reproduce the Italian national colors. Asparagus and southern smilax studded with white chrysanthemums and American Beauty roses faced the balcony in the lower hall. Standards of American Beauty roses marked the approach to the stairway. Farleyense ferns, studded with purple orchids banked the mantels in the halls and drawing room suite and towering ferns filled every corner. In the ballroom, temporarily converted into a chapel, the ferns threw into relief the white marble altar and priedieux. Ferns and American Beauty roses banked the face of the altar and the platform and there were standards of the roses on the altar. In the ante room an organ was ensconced in a bower of ferns. The bride carried a shower of lilies of the valley and white orchids, and the maid of honor carried a bouquet of pink orchids.

PITTSBURGH.

William M. Turner of Penn avenue, Wilkesburg, has returned from his annual week's hunting trip in Cameron County.

W. F. Hutchison of Sewickley, florist for the Pennsylvania Lines West, left last Tuesday night for Xenia, Ohio, to supervise the landscape features and planting for the new station there. He has just completed extensive work for the company's new stations in Canton, Ohio, and Chicago, Ill. Mr. Hutchison succeeds his father, Robert W. Hutchison, who died on July 17 at West Palm Beach, Florida.

In honor of the city's charter centennial this week, a downtown shop has decorations distinctive for elegance and at the same time, simplicity. Maidenhair ferns and large clusters of specimen chrysanthemums are intermingled, a few of the more conspicuous clusters being caught with broad ribbons of rich texture in Pittsburgh's black and yellow. A patriotic touch is given the whole by the red, white and blue background formed of medium sized silken flags.

Randolph & McClements made a special Hallowe'en display, distinctive without being grotesque. The essentially All Saints' pumpkin appeared in the center and again on each end of the wide window ledge, but cleverly "subdued" by overhanging autumn foliage. The "centerpiece" held a large burning wax candle, and nearby was an unusual touch given by a few seemingly carelessly arranged cattleyas; and on the window ledge and floor conspicuous space was given to oblong dominoe boxes and variegated foliage. Chrysanthemums, largely in bronze tints, prevailed.

ST. LOUIS.

Wm. C. Smith Wholesale Floral Co.'s delivery truck caught fire and was entirely demolished. Another car will be in service in a few days.

Foster, the florist, is advertising in the daily papers a chrysanthemum show, October 30 and 31, at his store on Ohio street. Music both days.

Publicity in regard to the coming Flower Show is being pushed to the front. Frank Windler, of the Windler Wholesale Floral Co., is especially active.

Lawrence, Mass.—A. H. Wagland, the Broadway florist, is preparing a petition to be presented to the city government, asking that the Arlington mills be compelled to abate an alleged smoke nuisance. Mr. Wagland and residents of the vicinity of the mills, claim that the Arlington has a blower equipment on the mill chimneys which spreads the soft coal soot all over the district. According to city hall officials there is a statute covering such a smoke nuisance, but it must be adopted by the city council before it can be enforced. The penalty is \$100 a week as long as continued.

ALWAYS LEADERS!

When you buy Bayersdorfer & Co. goods you get the best in the world.

BUY YOUR FALL SUPPLIES NOW

BASKETS BASKETS BASKETS

Chrysanthemum Baskets in Japanese novelty tints.
RED—RED—RED—specialties for Thanksgiving.

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Hampers and Flower Bowls.

Stock up now and have the goods to show customers. Send for prices and see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

During Recess

Boston Cut Flower Exchange

No more enjoyable event comes to the Boston flower growing fraternity in the course of the year than the annual banquet of the Flower Exchange which is an adjunct of the annual meeting of that corporation. As customary the festival was held in Young's Hotel, on Saturday night, October 28, this being the 24th anniversary, and there were about 120 members and invited guests present during the evening. The hotel outdid itself in the quality of the banquet and a fine orchestra did its part to make the affair a finished success, not to mention president Stickel, perennial toastmaster, who gets more and more mellow in his ripe experience as the years jog along.

The business meeting was sandwiched in between the more festive proceedings and did not take long. Officers and directors were re-elected by an unanimous vote for another year. The financial statement showed a prosperous year for the corporation and the establishment of a surplus fund of \$10,000 against future needs was unanimously approved. As an interlude a "straw ballot" of the gentlemen present was taken to ascertain the sentiments of the flower people on the coming national election. The result showed 77 for Hughes and 15 for Wilson with a few scattering and humorous.

The speakers as called upon by President Stickel were in genial mood and nothing very serious was superposed to check the flow of merriment and abandon which held sway. Remarks were made by Billie Carr, recently married and somewhat apologetic; W. H. Elliott, representing the other market and deeply concerned about the coal situation; J. K. M. L. Farquhar, representing the Horticultural Club and full of optimism as to the business outlook; Secretary Thurs-

ton full of satisfaction as to the past and confidence as to the future; President Methven of the Gardeners' and Florists' Club, who urged a larger interest in that organization by the commercial people; "Billie" Paterson, vice-president of the club, in approval thereof; E. S. Morse, auditor of the accounts of the Exchange who asserted that the organization is almost too prosperous and advised an increase of surplus funds as preferable to excessive dividends; J. T. Butterworth, full of humor and sage advice; W. N. Craig, congratulatory and earnest; W. J. Stewart, who agreed that his limitation was "Annie Laurie" and proceeded to prove it with the assistance of the orchestra. Songs and recitations by Mr. Mahoney were interspersed with happy results. The tables were handsomely adorned.

Boston Florists' Bowling League.

On Thursday evening, October 26, scores were recorded as follows:

M. & M.	401	418	433	1282
Penn.	397	377	415	1171
Robinson	431	405	389	1225
Galvin	455	497	424	1376
Snyder	420	390	412	1222
New Eng.	439	419	390	1248
Carbone	412	401	432	1245
Flower Ex.	416	419	434	1269
Waban	459	470	462	1391
Flower Mkt.	426	456	431	1313

Washington Bowlers.

The Florists' Club bowling team slipped back a notch last week for they lost three games in a row to the Park team. Gouldman scored highest for the Florists although his totals were nothing to boast of. Despite the setback they are beginning to make a very good showing. The score was as follows:

MOUNT PLEASANT DUCKPIN LEAGUE.

Whittlesey	88	97	84
Downing	132	83	90
Kelley	86	84	90
Inrle	105	98	115
Pardoe	95	112	84
Totals	506	471	472

Florists.

Gouldman	85	86	100
Shaeffer	80	101	85
Redmond	82	79	100
Cahill	78	80	83
Scheeps	86	96	84
Totals	411	442	452

PERSONAL.

Joseph Goatley has been appointed head gardener on the Walter Bliss estate, Bernardsville, N. J.

Paul F. Brigham of the Westboro conservatories and Helen I. Adams of Waverley, Mass., were married Oct. 26th.

Arthur Jackson is in charge of the new estate of J. B. Schlotman, Grosse Point Shores, Detroit, Mich. He was formerly gardener for A. E. Newbold, Chestnut Hill, Pa.

Frank Brunton, formerly superintendent of the Edward McQueeney estate, Fine Creek Mills, Va., is now superintendent of the Vander Kamp farms, Cleveland, N. Y.

Andrew McKendry succeeds James Bell as head gardener on the C. K. G. Billings estate, Oyster Bay, N. Y. Mr. McKendry is succeeded by Fred Falconer on the Harkness estate, Glen Cove.

Paul Maillard, gardener for several years past at the estate of Mrs. Chas. Stedman Hanks, West Manchester, Mass., has accepted a position at the country estate of Joseph Leiter, in Virginia, about seven miles outside of Washington.

Ardsley, N. Y.—Griffen, Prince & Ripley have sold fourteen acres of the Amzi L. Barber estate at Ardsley-on-Hudson to John F. Havemeyer, president of the Concrete Steel Company. The property has been used for gardening, greenhouses and the raising of grapes. Mr. Havemeyer will continue this use. It was held at \$30,000.

BEAUTIES

There is a reason why you should send your order to us. We are Headquarters for Beauties in this market, as we handle the cut of 100,000 plants.

THE LEO NIESSEN CO.

Wholesale Florists
1201-05 Race Street, PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street, BOSTON, MASS.

Tel. Fort Hill 1964-1965

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists
RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
264 RANDOLPH ST., DETROIT, MICH.

Telephone 2860 Madison Square

WOODROW & MARKETOS WHOLESALE

Plantsmen and Florists

37 and 39 West 28th St., NEW YORK



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262 B DEVONSHIRE ST., BOSTON, MASS.
Telephone. Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Nov. 2		ST. LOUIS October 30		PHILA. October 30	
Roses						
Am. Beauty, Special	20.00	to 25.00	25.00	to 30.00	25.00	to 30.00
" " Fancy and Extra	12.00	to 20.00	15.00	to 20.00	12.50	to 20.00
" " No. 1 and culls	1.00	to 8.00	5.00	to 12.00	6.00	to 10.00
Russell, Hadley	2.00	to 8.00	0.00	to 15.00	2.00	to 15.00
Killarney, Hillingdon, Ward, Extra	4.00	to 5.00	4.00	to 6.00	4.00	to 6.00
" " Ordinary	1.00	to 2.00	2.00	to 3.00	1.00	to 3.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 5.00	.....	to	4.00	to 6.00
" " Ordinary	1.50	to 2.00	.....	to	1.00	to 3.00
Ophelia, Mock, Sunburst, Euler, Extra	3.00	to 6.00	4.00	to 8.00	4.00	to 8.00
" " Ordinary	1.00	to 2.00	2.00	to 4.00	1.00	to 3.00
Carnations	1.00	to 2.00	1.50	to 3.00	1.00	to 3.00
Cattleyas	23.00	to 40.00	20.00	to 60.00	25.00	to 40.00
Dendrobium formosum	.....	to 50.00	.....	to .....	.....	to 50.00
Lilies	5.00	to 6.00	.....	to 15.00	8.00	to 10.00
Lily of the Valley	4.00	to 5.00	.....	to 6.00	4.00	to 6.00
Snapdragon	1.00	to 2.00	.....	to	1.00	to 4.00
Chrysanthemums	4.00	to 12.00	5.00	to 35.00	3.00	to 25.00
Violets	.....	to .40	.....	to .40	.....	to .50
Gardenias	.....	to 50.00	.....	to	25.00	to 30.00
Adiantum	.....	to 1.00	1.00	to 1.75	.75	to 1.00
Smilax	12.00	to 20.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	20.00	to 35.00	25.00	to 35.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568 570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER OF

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

BOSTON Every corner of the storage and display space in flower markets and wholesale houses is crowded with flowers. Chrysanthemums are, of course, the major part of the material, but if every chrysanthemum could be wiped out of existence there would still be an overstock of other things. Roses are very plentiful and there is nothing which cannot be supplied at once in response to any reasonable call. The situation is worse than last week, as the shipping trade then enjoyed has stopped the surplus conditions evidently having spread well over the whole country. Goods are disposed of at buyers' prices when sold at all.

A great change has **CHICAGO** come with the past week. Bright weather has brought out a large supply of nearly all kinds of stock, and light demand has resulted in an over accumulation that at this writing leaves the counters full. But the greatest surplus is in chrysanthemums, caused by the heavy shipments from California, coming when local stock was filling the market. The last of the early varieties are now coming and the mid season is here with all the largest blooms to meet an over filled market, which unless conditions change, will mean financial loss. Carnations have been more in evidence this week than before this season. Roses are of all grades and during the past week special low quotations have been made to move large quantities. Sweet peas are of very good quality, but demand is light. A few violets are coming but they are not much sought for. American Beauties are fine. Demand has been good and prices are holding up well. Lilies, so long not equal to the demand are selling slowly. All kinds of green goods are plentiful.

The market is more **CINCINNATI** than well supplied in all lines and with a rather indifferent call. The prices of most flowers are very reasonable from the retailers' view point. The demand from out of town is good, and particularly for greens and supplies. Roses are very plentiful. The same is true of chrysanthemums and lilies. Carnations are in a fair supply. Orchid and lily of the valley have been meeting with a good market. Other offerings include callas, snapdragon, a few sweet peas and a few dahlias and cosmos that escaped the recent frost.

The wholesale market is struggling under a veritable avalanche of chrysanthemums, roses, carnations, lilies and everything else that can be made to blossom at this season of the year. It is not so much a question of price as it is of getting the stuff moved at all. Chrysanthemum boxes in which a good-sized man might comfortably stretch himself come in enormous truck loads, and filled with flowers that in many instances are marvels of skillful culture, and between these and the rose crates which are also piled high on all sides



SPECIALS

A special must be a special in every sense of the word, so much so that every customer will have the utmost confidence in these specials, knowing they are being offered something of unusual value.

The week of November 6th finds us with two attractive

CHRYSANTHEMUM SPECIALS

SPECIAL NO. 1.

In lots of 50 or over; our selection as to color and variety; splendid quality; at \$12.50 per 100.

SPECIAL NO. 2.

In lots of 100 or over; our selection as to color and variety; medium quality; at \$8.00 per 100.

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI October 30		CHICAGO October 30		BUFFALO October 30		PITTSBURG October 31	
Roses								
Am. Beauty, Special.....	25.00	to 35.00	5.00	to 40.00	20.00	to 25.00	25.00	to 30.00
" Fancy and Extra.....	15.00	to 20.00	1.00	to 25.00	12.00	to 15.00	18.00	to 20.00
" No. 1 and culls.....	4.00	to 10.00	5.00	to 10.00	4.00	to 10.00	6.00	to 10.00
Russell, Hadley.....	8.00	to 12.00	3.00	to 20.00	8.00	to 10.00	6.00	to 12.00
Killarney, Hillingdon, Ward, Extra	6.00	to 8.00	6.00	to 8.00	6.00	to 8.00	6.00	to 10.00
Ord.....	3.00	to 5.00	1.00	to 5.00	3.00	to 6.00	1.00	to 4.00
Arenburg, Radiance, Taft, Key, Ex.	6.00	to 8.00	1.00	to 8.00	6.00	to 8.00	1.00	to 8.00
Ord.....	3.00	to 5.00	1.00	to 5.00	3.00	to 6.00	1.00	to 4.00
Ophelia, Mock, Sunburst, Euler, Ex	7.00	to 10.00	6.00	to 8.00	6.00	to 8.00	6.00	to 12.00
Ord.....	3.00	to 6.00	3.00	to 5.00	3.00	to 6.00	1.00	to 4.00
Carnations	8.00	to 4.00	1.00	to 3.00	2.00	to 3.00	3.00	to 4.00
Cattleyas	60.00	to 75.00	50.00	to 75.00	50.00	to 60.00	50.00	to 75.00
Dendrobium formosum	12.00	to 15.00	10.00	to 12.00	8.00	to 12.00	8.00	to 10.00
Lilies	12.00	to 6.00	3.00	to 5.00	5.00	to 6.00	1.00	to 6.00
Lily of the Valley	4.00	to 6.00	1.00	to 6.00	1.00	to 6.00	4.00	to 6.00
Snapdragon	10.00	to 25.00	5.00	to 20.00	8.00	to 20.00	12.00	to 30.00
Chrysanthemums.....	.35	to .60	.25	to .50	.50	to .60	.50	to .70
Violets	20.00	to 25.00	20.00	to 25.00	20.00	to 25.00	1.00	to 1.25
Gardenias	1.00	to 1.00	1.00	to 1.00	1.00	to 1.00	1.00	to 1.25
Adiantum	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00
Smilax	25.00	to 50.00	25.00	to 50.00	25.00	to 50.00	25.00	to 50.00
Asparagus Plu. & Spren. (100 Bhs.)								

locomotion in the wholesale district during the receiving hours of the morning is a difficult undertaking. The demand from the stores is very light and even the street men find no outlet for the stock, which they can buy at their own price.

The market here **PHILADELPHIA** is rather disappointing. Too many flowers and not enough business. This condition is probably the result of the unusually warm weather which has given outdoor flowers a new lease of life and also stimulated indoor production. American Beauty roses are not so plentiful as they were, the growers evidently having begun to pinch for the Christmas crop. Russells are still very fine quality and bring good prices. Ophelia is also among the leaders. Too many carnations for the demand. Among the new arrivals in the chrysanthemum world are to be noted some very fine Marigold, Chieftain, Strafford and Bonaffon. Cattleyas are still plentiful but the demand being good they re-

main normal as to price. A limited supply of oncidium, dendrobium and phalaenopsis is to be seen around. Lilies are more plentiful and price has dropped back to normal. Gardenias are now of excellent quality and move off at good prices. Sweet peas much improved lately and some really elegant stock is to be seen now.

There is little **PITTSBURGH** change noticeable in the market. Blooms of all kinds in season are coming in nicely with chrysanthemums improving daily in quality and quantities. Lilies, orchids and American Beauties are lessened in numbers. Some nice violets have begun to come from the Hudson river section, and all-round, the market is "comfortable" for the time of year.

Chrysanthemums are **ST. LOUIS** now holding considerable sway on the market. Roses and carnations of good quality are selling well. Trade in general, however, is slow and election

(Continued on page 1)

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 148 West 28th St., NEW YORK

Telephones: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street

Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5325, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE { 608 } MADISON SQ., NEW YORK
{ 609 }

JOHN YOUNG & CO.
WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Lewcotoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.
Tel. { 5893 } Mad. Sq. 119 W. 28 St., New York
{ 5893 }

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.
Wholesale Commission
READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE { 2281 } FARRAGUT 131 West 28th St., NEW YORK CITY
{ 3089 }

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US
Prices Right. Consignments Solicited. Telephone Connection

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES, CARNATIONS

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 2483 Farragut

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones { 1664 } Madison Square
{ 1665 }

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending Oct. 28 1916		First Half of Week beginning Oct. 30 1916	
American Beauty, Special	15.00	to 25.00	20.00	to 25.00
" " Fancy and Extra	10.00	to 15.00	10.00	to 15.00
" " No. 1 and culls	2.00	to 8.00	2.00	to 8.00
Russell, Hadley	2.00	to 10.00	2.00	to 10.00
Killarney, Hillingdon, Ward, Extra	2.00	to 6.00	2.00	to 5.00
" " Ordinary	.50	to 2.00	.50	to 2.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 6.00	3.00	to 6.00
" " Ordinary	.50	to 2.00	.50	to 2.00
Ophelia, Mook, Sunburst, Euler, Extra	3.00	to 6.00	3.00	to 6.00
" " Ordinary	.50	to 1.00	.50	to 1.00
Carnations	1.00	to 2.00	1.00	to 2.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for do-
ing our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK

Phones 2036, 2037, 558 Farragut

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797-798-799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.
Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality.

114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13-8510 Madison Square

MAURICE L. GLASS, Treasurer

Consignments Solicited

Flower Market Reports

(Continued from page 15)

time is liable to keep away would-be buyers till things are settled and quieted down. Roses are coming in of fine quality and clean up fairly well. Violets are going slow owing to warm weather and influx of chrysanthemums. Green is in demand. Lilies and smilax are scarce. Lily of the valley is also on the scarce side. Grand opera this week is expected to help some on the sale of flowers.

Local business is showing the effects of the coming election and the absence from the city of large numbers of people. Added to this there is a large quantity of stock in the market working to the demoralization of prices. Orchids and gardenias are scarce; they are exceptions. American Beauty roses are very fine, and carnations have improved materially. Violets are selling better. Chrysanthemums are at their height, forming a glut on the market with dahlias and cosmos. Sweet peas and yellow and white daisies of good quality are more numerous. All fine flowers have been in better demand for wedding decorations. Delphinium is again to be had.

Visitors' Register

Pittsburgh: Milton Alexander, New York City.

Chicago—Chas. Bartchat and wife, Dennison, Iowa.

Cincinnati—Miss Fannie White, Lexington, Ky.; Monroe Frankl, of Wertheimer Bros., New York; A. W. Hene, repr. Poehlmann's, Chicago, Ill.; E. Uhl, Greenfield, Ohio.

Philadelphia—C. B. Coe, repr. D. M. Ferry & Co., Detroit, Mich.; Jno. J. Perry, repr. Pennock-Meehan Co., Baltimore, Md.; Arthur E. Holland, repr. R. & J. Farquhar & Co., Boston, Mass.; Fred Howard, of Howard & Smith, Los Angeles, Cal.; John G. Hayes, repr. H. W. Doughten, Moorestown, N. J.; Thomas Coleman, Los Angeles, Cal.

Washington—John F. Walsh, Bronx Park, New York; Una E. Keith, Bridgeport, Conn.; Abraham W. Merkel, Zoological Park, New York; Milton Alexander, New York; Charles D. Ball, Phila.; C. B. Knickman, New York; Joseph J. Goudy, repr. Henry A. Dreer, Phila.; Julius Dihoff, New York; A. N. Pierson, Cromwell, Conn.

Beechwood Heights Nurseries

Importers and Growers of

ORCHIDS

Cut Flowers of All the Leading Varieties in their Season.

THOMAS YOUNG, Jr., Proprietor
BOUND BROOK, N. J.

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Oct. 28 1916		First Half of Week beginning Oct. 30 1916	
Cattleyas.....	20.00	to 35.00	20.00	to 35.00
Dendrobium formosum.....	.....	to 50.00	.....	to 50.00
Lilies.....	4.00	to 8.00	4.00	to 8.00
Lily of the Valley.....	3.00	to 5.00	3.00	to 5.00
Snape-dragon.....	1.00	to 2.00	1.00	to 2.00
Chrysanthemums.....	4.00	to 25.00	4.00	to 25.00
Violets.....	.15	to .35	.15	to .40
Gardenias.....	25.00	to 40.00	25.00	to 40.00
Adiantum.....	.85	to .50	.25	to .90
Smilax.....	8.00	to 15.00	8.00	to 15.00
Asparagus Plumosus, & Spreng (100 bunches).....	10.00	to 25.00	10.00	to 25.00

ORCHIDS - - GARDENIAS

HEADQUARTERS for the entire output of the

BEECHWOOD HEIGHTS NURSERIES, of Bound Brook, N. J.

PAUL MECONI — Wholesale Florist — NEW YORK

Telephone Nos. 3864 and 8364 Madison Square

57 WEST 26th STREET

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 5413-5801

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square
BOSTON, MASS.

Telephone 2618-2617-2616, Main.

William Stuart Allen Co.

Commission Merchants in

CUT FLOWERS

53 West 28th Street, NEW YORK

Telephone—356 Madison Square.

VIOLETS

B. S. SLINN, Jr., 55-57 W. 26th St.
NEW YORK

Established 1888

Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists

110 West 28th St., New York

We Solicit Consignments of New
England Grown Novelties.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK
Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of

Good Stock Solicited

PERCY W. RICHTER, Mgr., 111 W. 28th St.
NEW YORK

HERMAN WEISS

Wholesale Florist

Experienced, Progressive and can handle
shipments of growers' product
satisfactorily.

106 West 28th St., NEW YORK
Tel. Farragut 3066.

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE

118 West 28th Street

167 & 3058 Farragut

NEW YORK

VIOLET GROWERS

Before making your shipping arrangements for the coming season please correspond with me. I HANDLE VIOLETS ONLY and give my entire time and attention to the interests of my violet growers.

Write Now

CLARENCE SLINN

123 W. 28th Street

NEW YORK

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-LINGDALE GREENHOUSES, Collingdale, Pa.

ASTILBES

Mt. Desert Nurseries, Bar Harbor, Me.
New Hybrids for Forcing.
For page see List of Advertisers.

AUCTION SALES

The MacNiff Horticultural Co.,
New York City.

Bulbs and Boxwood.

For page see List of Advertisers.

Elliot Auction Co., New York City.
Plant Auctioneers.

For page see List of Advertisers.

Johnson & Millang, Inc., New York City.
Bulbs and Boxwood at Auction.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price-list.

JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.

For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

BEGONIAS

Mrs. J. A. Peterson (New), 2 1/4 in. pots,
\$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda,
N. Y.

"King Ideal" Boiler.

For page see List of Advertisers.

Hitchings & Co., New York City.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made.
Write for list. HOLTON & HUNKEL CO.,
Milwaukee, Wis.

BOX TREES

August Rolker & Sons, New York City.
For page see List of Advertisers.

BOX TREES—Standards, Pyramids and
Bush. Price list on demand.

JULIUS ROEHRS CO., Rutherford, N. J.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
Lilium Harrisii, Narcissus, Hyacinth and
Tulip Bulbs.

For page see List of Advertisers.

American Bulb Co., Chicago, Ill.

French and Dutch Bulbs.

For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
French, Japan, Holland and Cold Storage
Bulbs.

For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

The MacNiff Horticultural Co.,
Holland Grown Bulbs.

For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.

For page see List of Advertisers.

Thomas Cogger, Melrose, Mass.
Holland Bulbs.

For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

WESTERBEEK & KLYN,
SASSENHEIM, HOLLAND.
Write for prices on all kinds of bulbs to
14 Stone St., New York.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

CARNATION STAPLES

Split carnations quickly, easily and
cheaply mended. Pillsbury's Carnation
Staple, 1000 for 35c.; 3000 for \$1.00 post-
paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.

Pompon Chrysanthemums.

For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.

For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

CHRYSANTHEMUMS—Continued

Guttman & Raynor, Inc., New York City.
Or Frank Dinda, Farmingdale, N. Y.
Chrysanthemum -Alex Guttman.
For page see List of Advertisers.

CINERARIAS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

ORDERS BOOKED ANYTIME

For Fall or Spring delivery. Wholesale and
Retail. Send for Catalogue. NORTHBORO
DAHLIA & GLADIOLUS GARDENS, J. L.
Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest,
Best. New color, new form and new habit
of growth. Big stock of best cut-flower
varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.

For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.

For page see List of Advertisers.

For Plants and Cuttings get our prices
before ordering elsewhere. Our guarantee
with every order. Write for a copy of
latest Plant Bulletin.

Asparagus	Cyclamen	Primula
Begonias	Daisies	Smilax
Bulbs	Dracena	Snapdragons
Calceolaria	Ferns	Violets
Calendula	Geraniums	
Cineraria	Hydrangeas	

S. S. PENNOCK-MEEHAN COMPANY.
Philadelphia, 1608-1612 Ludlow St.
Baltimore, Franklin and St. Paul St.
Washington, D. C., 1216 H St., N. W.
New York, 117 W. 28th St.

FERNS

A. M. Davenport, Watertown, Mass.
Small Ferns for Dishes.

For page see List of Advertisers.

R. Vincent, Jr., & Sons Co., White Marsh,
Maryland.

For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

Joseph Heacock Co., Wyncote, Pa.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wisard Brand Cattle Manure.

FLORISTS' PLANT STOCK

Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

For List of Advertisers See Page 595

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.

For page see List of Advertisers.

GERANIUMS

B. Vincent, Jr. & Sons Co.
White Marsh, Md.

For page see List of Advertisers.

Geraniums: S. A. Nutt, 2 1/4 in.; also rooted cuttings. First class stock. Write for prices. FRANK LEITH & SON, Haverhill, Mass.

GLADIOLI

John Lewis Childs, Flowerfield, L. I., N. Y.
Primulins Hybrids.

For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

Glass 6 x 8, 8 x 10, 10 x 12, 10 x 14, \$1.65 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.

For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset, Boston.
Pecky Cypress.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

John C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Hitchings & Co., New York City.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Boston, Mass.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.

For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

Palisades Nurseries, Inc., Sparkill, N. Y.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co., Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset, Mass.

HOSE

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

HYDRANGEAS

Anglin & Walsh Co., Williamsbridge, N. Y.
Otaksa and Avalanche.
For page see List of Advertisers.

INSECTICIDES

Hammond's Paint & Slug Shot Works, Beacon, N. Y.
Hammond's Thrip Juice No. 2.
For page see List of Advertisers.

Aphine Manufacturing Co., Madison, N. J.
Aphine.

For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

B. G. Pratt Co., New York City.
Whys and Wherefores of Fall Spraying.

KENTIA SEED

McHutchison & Co., New York City.
For page see List of Advertisers.

LILY BULBS

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Lilium Harrisi Bulbs.
For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
Lilium Formosum Bulbs.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Lilium Giganteum.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hohmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Hahoro, Pa.
For page see List of Advertisers.

NIKOTEEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSEY STOCK

R. & J. Farquhar & Co., Boston, Mass.
Trees.
For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Cedar Hill Nurseries, Glen Head, L. I., N. Y.
Two Magnificent New Shurbs.

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Francisco Delgado Q, Bogota, Colombia.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

PALMS

Joseph Heacock Co., Wyncote, Pa.

PANSIES

H. P. Beers, Greens Farm, Conn.
Giant Pansies, Seeds and Plants.
For page see List of Advertisers.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHLOX

150,000 field grown Phlox in 12 leading varieties; all colors; true to name. \$3.50 per 100, \$30.00 per 1000. THE NILES NURSERY CO., Niles, Mich.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

PIPE AND FITTINGS—Continued
Kling Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS
H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS
Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

RHODODENDRONS
P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES
P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Crown Roses.
For page see List of Advertisers

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers

August Rolker & Sons, New York City.
Hardy Roses.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

ROSE STAKES
The Carnation Support Co.,
Connersville, Ind.

SASH
Standard Hot Bed Sash with cross bar,
80c. each; lots of 25 and over, 75c. each.
Satisfaction guaranteed or money refunded.
Glass 6 x 8, 8 x 10, 10 x 12 or 10 x 14, \$1.65
per box of 50 sq. ft. C. N. ROBINSON &
BRO., Dept. 29, Baltimore, Md.

SEASONABLE PLANT STOCK
R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

SEEDS
Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Boigiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Shamrock Seed.
For page see List of Advertisers.

Chas. Schwake & Co., New York City
For page see List of Advertisers.

Mitchell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
Gold Medal Cyclamen Seed.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

SEEDS—Continued
Ant. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Seeds, Selected Strains.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
For page see List of Advertisers.

Roman J. Irwin, New York City.
New Crop Florists' Seeds.
For page see List of Advertisers.

Fettler, Elske, Rawdon Co., Boston, Mass.
Seeds for the Florist.

SHAMROCK SEED
Arthur T. Boddington, New York City.
For page see List of Advertisers.

SNAPDRAGONS
Keystone and Nebraska 2 1/2 in. from seed,
pinched back, well rooted and ready to
shift, 3 cents if taken at once.
C. H. LOTHROP, Lexington, Mass.

SPIREA
Thomas Cogger, Melrose, Mass.
For page see List of Advertisers.

SPHAGNUM MOSS
Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGNER
& HURRELL, Summit, N. J.

SWEET PEA SEED
Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
For page see List of Advertisers.

VASES
H. Bayeradorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS
R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers

Rhubarb Roots, Linnaeus and Victoria,
extra large for forcing in cellar, \$1.00
dozen; \$6.00 hundred. Celery plants, very
large, leading varieties, 10c. hundred; \$1.75
thousand. Lettuce plants, Grand Rapids,
\$1.00 thousand. Cabbage plants, leading
varieties, \$2.00 thousand. Parsley plants,
75c. hundred; \$3.75 thousand. HARRY E.
SQUIRES, Good Ground, N. Y.

VENTILATING APPARATUS
The Advance Co., Richmond, Ind.
For page see List of Advertisers.
The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES
Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VIOLETS
Clarence Slinn, 123 West 28th St., New York
City.
For page see List of Advertisers.

WHEAT SHEAVES
H. Bayeradorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS
W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK
Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS
Albany, N. Y.
Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore
The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
For page see List of Advertisers.

Boston
Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 3
Winthrop Sq.
For page see List of Advertisers.

Brooklyn
Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.
William F. Kasting Co., 568-570 Washing-
ton St.
For page see List of Advertisers.

Chicago
Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.

Detroit
Michigan Cut Flower Exchange, 294-300
Randolph St.
For page see List of Advertisers.

New York
H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
For page see List of Advertisers.

Hents & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. F. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Fraendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
For page see List of Advertisers.

Madgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

For List of Advertisers See Page 595

WHOLESALE FLORISTS New York—Continued

Paul Meconi, 57 West 28th St.
For page see List of Advertisers

Woodrow & Markatos, 87 and 89 W. 28th St.
For page see List of Advertisers.

Blodel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 58 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Guttman & Reynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunther Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

George W. Crawbuck Co., 57 West 28th St.
For page see List of Advertisers.

William Stuart Allen Co., 53 West 28th St.
For page see List of Advertisers.

Clarence Slinn, 123 West 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ransstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 21 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St.
N. W.
For page see List of Advertisers.

Now Offers In This Issue

AZALEA INDICA AND HOLLAND BULBS AT AUCTION.

MacNiff Horticultural Co., New York City.
For page see List of Advertisers.

CHRYSANTHEMUM SPECIALS.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

FORCING RHODODENDRONS.

Collin Campbell, New York City.
For page see List of Advertisers.

GARDEN SEEDS.

S. D. Woodruff & Sons, New York City and
Orange, Conn.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

IMPORTERS AND GROWERS OF ORCHIDS.

Beechwood Heights Nurseries
Bound Brook, N. J.
For page see List of Advertisers.

LILIUM FORMOSUM BULBS.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

SIM'S HYBRID YELLOW POLYAN- THUS—GOLD MEDAL PANSIES.

William Sim, Chiffondale, Mass.
For page see List of Advertisers.

THENANTHOS, THE WONDERFUL NEW RED CARNATION.

A. L. Randall Co., Chicago, Ill.
For page see List of Advertisers.

VIOLETS.

B. S. Slinn, Jr., 55-57 West 28th St.,
New York City.
For page see List of Advertisers.

TREES, SHRUBS, VINES and HERBACEOUS PERENNIALS

By JOHN KIRKEGAARD

Formerly Assistant to Director of the Royal
Botanical Gardens, Copenhagen, Denmark.
Latterly Twenty Years in American For-
estry and Botanical Work.

Assisted by DR. H. T. FERNALD,

Professor of Entomology Massachusetts
Agricultural College and Entomologist,
Massachusetts Agricultural Experiment
Station.

and PROF. E. A. WHITE,

Professor of Floriculture, New York State
College of Agriculture at Cornell Univer-
sity.

A Great Book A Beautiful Book
A Comprehensive Book
A Practical Book By Practical Men
There Is No Other Book Like It

410 Pages. Planting Plans. Tabular De-
scription and Classification of Species. 59
Full-Page Illustrations in Tone. Authorita-
tive Articles on Many Subjects.

New Edition

BEAUTIFULLY BOUND IN CLOTH

Price only \$2.50 net. Mailing

Price, \$2.71. Money-Back

Guarantee

Order it from HORTICULTURE

147 Summer St., Boston

WANTS, FOR SALE, Etc.

HELP WANTED

WANTED—Sober, industrious man thor-
oughly able to grow all flower and veg-
etables under glass, to take charge of green-
houses on large private place near New
York City. Must be able to manage other
men in greenhouses but he will not be
required to manage outside work. Single
man preferred.

AMONG GREENHOUSES.

Mamaroneck, New York

SITUATIONS WANTED

Gardener with first-class references, 30
years old, married, no children. Experi-
ence in and outdoors on well-known private
places. Address "R. S.," care HORTICUL-
TURE, Boston.

PROPOSALS

TREASURY DEPARTMENT, Supervising
Architect's Office, Washington, D. C.,
October 21, 1916.—SEALED PROPOSALS
will be received in this office until 10 a. m.,
November 20, 1916, and then opened, for
planting trees, shrubs, etc., on the grounds
of the Federal Buildings at Bellaire, Belle-
fontaine, Cambridge, Dayton, Marion, Mass.
field, Massillon, Portsmouth, Salem, Sidney,
Tiffin, Wooster, Xenia, Ohio; Beardstown,
Blue Island, Belvidere, Canton, Centralia,
Collinsville, Danville, Duquoin, Evanston,
Harrisburg, Macomb, Mount Vernon, Paris,
Princeton, Robinson, Urbana, Illinois;
Bloomington, Connersville, Crawfordsville,
Elwood, Gary, Goshon, Jeffersonville, Mis-
sawaka, Peru, Princeton, Seymour, Port-
land, Muncie, Indiana; in accordance with
the specifications, copies of which as well
as copies of approach plans of the several
buildings may be had upon application to
the respective Custodians of the Buildings,
or at this office. Make application only
for the specifications and drawings for the
buildings for which you intend to submit
proposals. Jas. A. Wetmore, Acting Super-
vising Architect.

Plant Propagation, Greenhouse and Nursery Practice

By M. G. KAINS

We have had many inquiries from
time to time for a reliable and up-to-
date book on plant propagation, but
were always at a loss to find any pub-
lication that we could recommend. The
subject has been dealt with in fragmen-
tary manner only in books that have
come to our notice. So it is well that
this new work has been issued, especi-
ally as it is both comprehensive and
practical, and it should meet with a
ready sale among plantmen, nursery-
men and gardeners. There are nineteen
chapters covering in detail topics of
germination and longevity of seeds,
propagating by buds, layering, cuttings,
grafting, etc., fruit tree stocks, clones,
etc., and there are eight pages of con-
densed cultural instructions in tabu-
lated form, covering annuals and peren-
nials from seed, woody plants, ever-
greens, vines, bulbs and tubers, green-
house and house plants, ferns, palms,
water plants, orchids and cacti. The
illustrations are numerous, comprising
213 figures and half-tone plates. There
are 322 pages well bound and on heavy
paper, teeming with helpful information.
It is a book which no cultivator can
afford to do without. It is worth many
times its price. Copies can be supplied
from the office of HORTICULTURE at
the publisher's price, \$1.50.

Horticulture Publishing Co.

147 SUMMER ST., BOSTON, MASS.

THE NUT-GROWER

The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

In writing to Advertisers kindly mention Horticulture

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**COMBINATION VEGETABLE AND
FRUIT CELLAR**

Editor, HORTICULTURE

Dear Sir: The writer has to build a combination vegetable and fruit cellar. Could you advise him where he could find out just how to go about it? Would like to know what is considered the proper location and aspect. Also how about ventilation, and all and every kind of information pertaining to a building of this kind.

Michigan

W. B.

A combination vegetable and fruit cellar should not be installed in the same room. There should be a very thoroughly insulated partition between the two cellars. It is always advisable to build a root cellar separately below the ground, and a fruit house above ground.

The plan followed by Vermont people who use no ice, for a fruit house, is to build an insulated house with heavy refrigerator doors. Fruit put in there in the fall is exposed to the night air by leaving doors and windows open during the night. The doors are closed in the early morning and the temperature is kept equal.

The root cellar, built partially below ground, may be constructed of almost any material from cement to sods, but should be protected thoroughly against freezing, either by covering with loam or leaves, and a ventilator should be put in, coming not more than two feet from the ground and extending well up through the roof.

In Bailey's Cyclopedia of American Horticulture will be found a good description of a root cellar, and Waugh's "Fruit Harvesting, Storing, Marketing" gives details for a fruit house.

**NON-KINK WOVEN HOSE**

In any length (one piece) with couplings, 14c. per foot. Unequaled at the price. Remnants, shorter than 50 feet, 10c. per foot, with couplings.

**HOSE VALVE—70c.**

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1892-1414 Metropolitan Ave., Brooklyn, N. Y.

**GREENHOUSES BUILDING OR CON-
TEMPLATED.**

Knoxville, Ia.—J. W. Bittenbender, house 20 x 60 feet.

Jacksonville, Fla.—F. C. Elwes, 2021 Main St., one house.

Allenport, Pa.—C. S. Fouse, additions and alterations.

Altoona, Pa.—L. S. Peterman Co., two houses, completed.

Salem, Mass.—Caroline O. Emmer-ton, one house, completed.

Philadelphia, Pa.—S. E. Hutchinson, 1718 Walnut St., one house.

Hickman Mills, Mo.—Wright & Ragan, two houses each 27 x 200.

Decorah, Ia.—W. T. Symonds & Sons, house 30 x 100, completed.

NEW CORPORATIONS.

Wenatchee, Wash.—Columbia & Okanogan Nursery Co., capital stock, \$20,000.

Webster, Mass.—Webster Floral Co., capital stock, \$20,000. Incorporators, Edw. Gustafson, Olof L. Martins and O. P. Anderson.

Edmonton, Ky.—Golden Rule Nursery & Orchard Co., capital stock, \$6,000. Incorporators, Dr. P. W. Bushong, J. P. Van Zant and others.

Indianapolis, Ind.—Circle Flower Store Co., to deal in flowers and ornamental fish. Incorporators, Grace Jackson, Emma F. Gates and Nellie C. Reynolds.

Franklin, Mass.—Fred G. Crombie, recently employed at the Continental Nurseries has resigned and Edward L. Barnes succeeds him as gardener at that establishment.

**DREER'S**

Florist Specialties. New Brand. New Style. Hose "RIVERTON." Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST
1/2-inch, per ft., 15 c.
Reel of 500 ft., " 14 1/2 c.
2 Reels, 1000 ft., " 14 c.
3/4 inch, " 13 c.
Reels, 100 ft., " 12 1/2 c.

Couplings furnished

HENRY A. DREER,

714 Chestnut St.,

PHILADELPHIA, PA.

STANDARD FLOWER**POTS**

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

225th & M Sts., Washington, D. C.

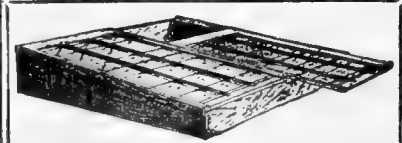
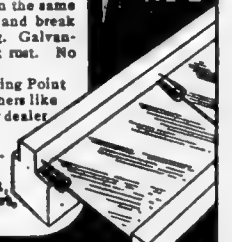
The Florists' Hall Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address JOHN G. ESLER, Sec., Saddle River, N. J.

**KROESCHELL
BOILER****SEND FOR CATALOGUE****KROESCHELL BROS. CO.**
406 W. Erie St. Chicago, Ill.**Dreer's Peerless
Glazing Points
For Greenhouses****FULL
SIZE
No. 2**

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No right or left.

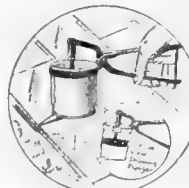
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.
Samples free.
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

**HOTBED SASH at 80c. each**
Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.
Double Light Sash up to \$4.00.

We carry a large stock of all sizes.
Write us for estimates.

S. JACOBS & SONS1350-1385 Flushing Avenue **BROOKLYN, N. Y.**

Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

Seal-tight liquid putty at \$1.25 per gallon.
METROPOLITAN MATERIAL CO.
1892-1414 Metropolitan Ave., Brooklyn, N. Y.

King Greenhouses

KEEP SUMMER WITH YOU THE WHOLE YEAR ROUND

On account of their sturdy special construction which permits of great strength without the need of heavy shadow casting supports, these houses are so warm and sunny that they are filled with a riot of bloom and fruit when Jack Frost has stripped the garden of its beauty.

The ventilating and heating systems are the result of years of experience in building for professional growers. Things just have to grow in a King.

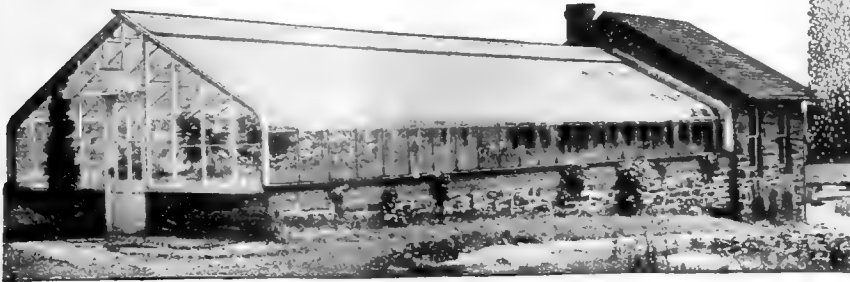
Write today for Bulletin No. 43. See how beautiful and how productive a greenhouse can be erected for the price you want to pay.

KING CONSTRUCTION COMPANY

King's Road, North Tonawanda, N. Y.

ALL THE SUNLIGHT

ALL DAY HOUSES



FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, CHICAGO, ILL.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.



EVERYTHING FOR THE GREENHOUSE John C. Moninger Company

CHICAGO 822 Blackhawk St. NEW YORK 812 Marbridge Bldg.
CINCINNATI, 2314 Union Central Bldg.

GET OUR CATALOGUE

On Ventilating Apparatus and Greenhouse Fittings
ADVANCE CO., RICHMOND, IND.

MASTICA



For Greenhouse
Glazing
USE IT NOW

F. O. PIERCE CO.
12W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

When writing to advertisers kindly mention HORTICULTURE.



This picture was taken right after a storm, and proves conclusively that our style of construction is positively weathering.

This full iron frame, curved eave JACOBS' GREENHOUSE, was completely erected, including ventilation and heating system, by our own expert mechanics, for Mr. Chas. Bradley at Convent, New Jersey.

This greenhouse is 25 x 85 ft., and has a partition in the middle, making two distinct and separate compartments, with separate heating systems, so that different temperatures may be maintained in both sections.

WE KNOW WHAT TO DO AND WHAT NOT TO DO

If you contemplate building a greenhouse write us—we can save money for you.

S. JACOBS & SONS

Greenhouse Builders

1359-1385 Flushing Ave.,
BROOKLYN, N. Y.

GLASS

GREENHOUSE MATERIAL
HOT-BED SASHES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

PATENTS

Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



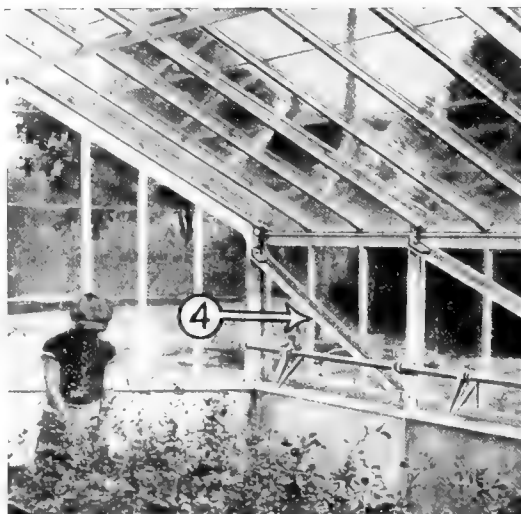
Evans 20th Century Arm

Most up-to-date arm on the market. Proved that it is better than any other is that others tried to imitate it. Write for our 1916 catalogue out.

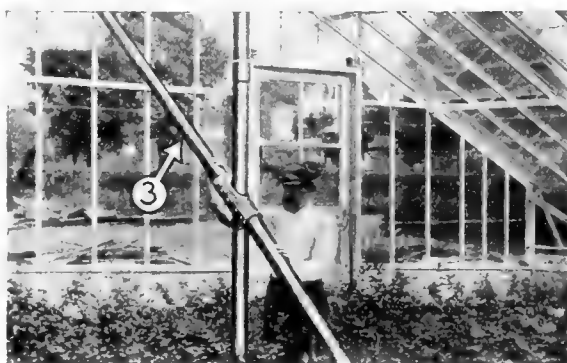
JOHN A. EVANS CO.
Richmond, Ind.



No. 1 is the gable truss stiffener. No. 2 is the pipe brace running from center of gable to the ridge. No. 3, the pipe brace running from the gable rafter to the first column and then on down into a concrete footing in the ground.



The stiffening of the first two sections is accomplished by running an angle iron from eave to sill. Stiffening at this point, we consider very necessary.



This shows you how No. 3 is tied to the first column, on its way to the concrete footing.

How We Put "The Starch" In Our Gables

THERE has been much talk and many claims about rigid gables. The wind pressure against their direct upright surfaces is terrific.

After very careful investigation, and a series of rigid tests, we have come to the definite conclusion that much of the loosening of glass in the big houses is largely due to the lack of rigidity of the gables.

To make the gable so there is no movement in and out—is not enough.

There is a tremendous pressure exerted by the gable against the entire frame. The more rigid it is; in fact with the more force, is that pressure passed along.

Upright strength rigidity is not enough.

There must also be a bracing that shall convey the winds' thrust to the foundation and footings, and take all possible away from the frame.

This is how we accomplish it.

First the gable rafters and purlins are made amply strong.

Then the broad end is stiffened by a truss running parallel with one of the purlins. See No. 1.

Extending from the center of the gable, a pipe brace runs to the ridge. See No. 2.

From two of the gable rafters, we run a pipe brace to the first column, and down into a concrete footing beyond. See No. 3.

On two of the side sections we put angle iron bracings, from the eave to the sill. See No. 4.

From the description and the enlarged points of views of the picture, it might seem that such bracings might be rather noticeable, but they are not.

If you do notice them, it is only to be impressed that here at last is a gable that is rigid, and will preserve the rigidity of the entire house. A gable that will not transfer the wind pressure directly to the entire framework, sooner or later, causing glass loosening.

Hitchings and Company

NEW YORK
1170 Broadway

BOSTON
49 Federal Street

PHILADELPHIA
40 S. 15th Street

General Offices and Factory, Elizabeth, N. J.

Vol. XXIV
No. 20
NOV. 11
1916

HORTICULTURE



Lilium candidum

Plantation in Mt. Desert Nurseries, Bar Harbor, Me.

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription, \$1.00

LILY BULBS

A business house owes its reputation more to what it gives than to what it gets. In other words the merit of the thing sold outlives the money involved in the transaction. We give our customers the best in lily bulbs there is and get the least consistent with a legitimate reward for our services. Some think that because we are the largest handlers of lily bulbs in the world, we should be able to compete in price with anyone. Our answer is that our aim is not price at all, but quality, and we do compete there with anyone in the business. Horseshoe Brand Giganteum will average more flowers year in and year out than any other brand in the market. Lily bulbs of prime quality—from the best fields never go begging—price never gets them—it's the other kind that make price attractive. The wise florist, however, will get Horseshoe Brand bulbs and he can then feel sure he is getting bulbs that are at least from good healthy fields, well cured and properly packed. The present prices are as follows, and deliveries can be made in nearly all the sizes immediately:

GIGANTEUM

The Best White Lily for Easter—Plant Now

Size 6 x 8 in.	\$5.00 per 100;	\$18.00 per case of 400
Size 7 x 9 in.	7.00 per 100;	18.00 per case of 300
Size 8 x 9 in.	8.00 per 100;	19.00 per case of 280
Size 8 x 10 in.	9.00 per 100;	20.00 per case of 250
Size 9 x 10 in.	10.00 per 100;	19.00 per case of 200
Size 10 x 11 in.	13.00 per 100;	18.00 per case of 150

Prices quoted upon application for Cold Storage Giganteum delivered any time during 1917. Send for a Planting Table, showing planting and flowering dates. State quantities required per week or month.

FORMOSUM

For early flowering and for those who have insufficient heat for forcing Giganteum for Easter.

Size 6 x 7 in.	\$5.00 per 100;	\$16.00 per case of 380
Size 7 x 9 in.	7.00 per 100;	18.00 per case of 270
Size 9 x 10 in.	10.00 per 100;	16.00 per case of 160
Size 9 x 11 in.	12.00 per 100;	16.00 per case of 150
Size 10 x 11 in.	13.00 per 100;	16.00 per case of 140
Size 10 x 12 in.	14.00 per 100;	16.00 per case of 120

HOLLAND BULBS

DIRECT IMPORTATIONS—GOOD VALUE—PROMPT SHIPMENTS

HYACINTHS

	100	1000
SECOND SIZE NAMED. Good varieties	\$3.50	\$30.00

SINGLE TULIPS

BELLE ALLIANCE. Scarlet.	\$1.50	\$10.00
LA REINE. White.	1.00	8.00
KEIZERKROON. Red and yellow	1.50	12.00
COTTAGE MAID. Pink.	1.00	8.00
ROSE GRIS DE LIN. White, pink shade	1.00	7.00
YELLOW PRINCE. Yellow.	1.00	9.00

DOUBLE TULIPS

COURONNE D'OR. Fine yellow	\$2.00	\$18.00
IMPERATOR RUBRORUM. Scarlet	2.00	15.00
TOURNESOL. Red and yellow	2.00	18.00

MIXED TULIPS

	100	1000
SINGLE SUPERFINE MIXTURE	\$0.75	\$6.50
DOUBLE SUPERFINE MIXTURE	.85	7.50

DARWIN and COTTAGE TULIPS

GRETCHEN (Margaret). Flesh color	\$1.00	\$9.00
INGLEScombe. Large yellow	2.50	20.00
MADAME KRELAGE. Lilac rose	1.50	12.00
GESNERIANA SPATHULATA. Fine scarlet, blue base	1.35	10.00

NARCISSI

	100	1000
VON SIONS (Daffodils). Double Nosed Bulbs	\$2.50	\$20.00
PRINCEPS MAXIMUS. Primrose, with yellow trumpet.		
Double Nosed Bulbs	\$1.25	\$10.00
Single Nosed Bulbs	1.00	8.00

MISCELLANEOUS BULBS

PAPER WHITE GRANDIFLORA. Fine for late planting. First size can be shipped from Round Brook, N. J., or Cincinnati, Ohio. Extra sizes from Round Brook only.		
First Size	\$7.00 per 500;	\$15.00 per case of 1250 bulbs.
Extra Size	\$9.00 per 500;	\$16.00 per case of 1000 bulbs.
CHINESE SACRED LILIES	\$7.00 per mat of 120 bulbs.	
TREESIAS, First Size	\$10.00 per 1000.	

RALPH M. WARD & COMPANY

THE LILY HOUSE

71-73 Murray Street, - New York City

BRANCH AT ROTTERDAM

GERANIUMS

We have the largest stock in better condition than we have ever had. In 1916 we have a large stock of Geraniums in all shapes. Alph. Ricard, Beaume P. Devine, Jean Viaud, Edmond Blanc and S. A. Nutt, Gen. Grant, Mad. Buchanan, M. G. Trego, etc. 2 in. at \$2.00 per 100, \$18.50 per 1000; 3-in. at \$3.00 per 100, \$25.00 per 1000. **CROTONS.** Good 4-in stock \$3.50 per doz., \$25.00 per 100. **BOSTON FERNS,** 7 in., \$8.00 per doz.; 8 in., \$1.00 each, \$8.00 per 100. 12 in. at \$1.00 each, \$8.00 per 100.

	2-in. 100	2-in. 1000	3-in. 100	3-in. 1000
ACALYPHA	\$2.50	\$20.00	\$3.50	\$30.00
ALTERNANTHERAS	2.00	18.50	3.00	25.00
AGERATUM	2.00	18.50	3.00	25.00
ASPARAGUS SPRENGERI			5.00	
BEGONIAS, Vernon	2.00	18.50	3.00	25.00
COLEUS	2.00	18.50	3.00	25.00
CUPHEA	2.00	18.50	3.00	25.00
HARDY ENGLISH IVY	2.00	18.50	3.00	25.00
HELIOTROPE	2.00	18.50	3.00	25.00

	2-in. 100	2-in. 1000	3-in. 100	3-in. 1000
LEMON VERBENAS	\$2.00	\$18.50	\$3.00	\$25.00
LANTANAS, 10 varieties	2.00	18.50	3.00	25.00
MOONAINES, White and Blue	2.00	18.50	3.00	25.00
PARLOR IVY, S. Scandens	2.00	18.50	3.00	25.00
PETUNIAS, Double and Single	2.00	18.50	3.00	25.00
POM-POM CHRYSANTHEMUMS	2.00	18.50	3.00	25.00
SALVIA, Bouche and Zurich	2.00	18.50	3.00	25.00
SWAINSONA, White	2.00	18.50	3.00	25.00

CASH WITH ORDERS.

R. VINCENT, Jr., & SONS CO.,

 WHITE MARSH,
MD.

LILY OF THE VALLEY PIPS

Danish and German Stock

 Booking Orders now for
1916 Crop

LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

 ORDERS TAKEN NOW
FOR 1916 CROP

Valley

 GERMAN, SWEDISH
AND DUTCH PIPS

CHAS. SCHWAKE & CO., Inc.

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....655	Cottage Gardens	Gasser Co., J. M.....643	Kroeschell Bros.....654	Penn the Florist.....642	Smith, Elmer D.
Albany Cut	Co.....636	Gude Bros. Co.....642	Kuebler, W. H.....648	Pierce Co., F. O.....655	& Co.....636
Flower Ex.....648	Cowee, W. J.....646	Gunther Bros.....649	Lange, H. F. A.....643	Pierston, A. N.....636	Smith, P. J.....648
Allen, J. K.....649	Craig, Robt. Co.....636	Guttman & Ray-	Leonard Seed Co.....641	Pierston, F. R.....628	Smith & Fetters.....643
Allen, Wm. Stu-	Crawbuck, Geo.	nor.....636-648	Loechner & Co.....627	Pittsburgh Cut	Smith, W. & T.
art.....649	W. Co.....649	Hall Association.....655	Lord & Burnham	Flower Co.....649	Nursery Co.....636
American Bulb	Dards.....642	Hammond Paint	Co.....656	Poehlmann Bros.	Smyth, Wm. J.....643
Co.....641	Davenport, A. M.....628	& Slug Shot	McHutchison &	Co.....646	Stearns Lumber
Anderson, S. A.....643	Delgado Q. Fran-	Works.....639	Co.....628	Pratt Co., B. G.....639	Co., A. T.....655
Anglin & Walsh.....636	cisco.....628	Hart, Geo. B.....648	McManus, Jas.....648	Randall's Flower	Stump, G. E. M.....642
Aphne Mfg. Co.....639	Dinda, Frank.....626	Heacock Co.,	McConnell, Alex.....642	Shop.....643	Thorburn, J. M.
Badgley & Bishop,	Dorner, F. &	Joseph.....635	MacNiff Horticul-	Road & Keller.....646	& Co.....640-641
Inc.....648	Sons Co.....636	Henderson, A. &	tural Co.....637	Riedel & Meyer.....648	Totty, Chas. H.....636
Barrows & Son.....628	Dreer, H. A.....654	Co.....641	Marshall, W. E.	Robt. Edw.....646	Traendly &
Bayersdorfer, H.	Dunlop, John H.....643	Hentz & Nash.....648	Co.....641	Reuters.....643	Schenck.....648
Co.....645	Dysart, R.....628	Hess & Swoboda.....643	Meeoni, Paul.....649	Robinson, H. M.	United Cut Flower
Bay State Nur-	Eastern Chemical	Hews, A. H. &	Metropolitan Ma-	& Co.....649	Co.....649
series.....637	Co.....639	Co.....654	terial Co.....654-655	Robinson, H. M.	Valentine, J. A.....642
Beechwood Hghts.	Edwards Folding	Hill, E. G. Co.....646	Michell, H. F.	Co.....648	Vincent, R. Jr.
Nurseries.....649	Box Co.....646	Hill, D. Nursery	Co.....640	Roehrs, J. Co.....628	& Sons Co.....627
Beers, H. P.....628	Elliot Auction	Co.....636	Michigan Cut	Roland, Thomas.....643	Wants, For Sale.....653
Bobbink & At-	Co.....628	Holland Nurser-	Flower Ex.....646	Rolker, A. &	Ward, R. M. &
kins.....636	Ernst, W. H.....654	ies.....636	Millang, Chas.....648	Sons.....628	Co.....628
Boddington, A. T.....640	Esler, J. G.....655	Holm & Olson.....643	Moninger, J. C.	Rosery, The.....642	Weber, F. C.....643
Bolgiano & Son.....641	Evans, J. A. Co.....655	Irwin, R. J.....641	Co.....655	Schling, Max.....642	Welch, Herman.....649
Breck, J. & Sons.....641	Eyres.....643	Jacobs, S. &	Murray, Samuel.....642	Schwake, Chas.	Welch Bros. Co.....646
Breitmeyer's, J.	Farquhar, R. &	Sons.....654-655	National Nur-	Sharp, Partridge	Wood Bros.....636
Sons.....642	J. & Co.....641	Johnson & Mil-	serman.....636	& Co.....655	Woodrow & Mar-
Budlong, J. A.....646	Foley Mfg. Co.....655	lang.....638	Nicotine Mfg	Sheldahl, W. F.....648	ketos.....646
Bunyard, A. T.....642	Ford, W. P.....648	Kasting, W. F.	Co.....639	Shiebrecht, Geo. C.....648	Woodruff, S. D.
Burnett Bros.....641	Ford, M. C.....648	Co.....646	Niessen, Leo Co.....646	Shiebrecht, W. R.....648	& Sons.....641
Burpee, W. A. &	Fottler, Fisho.	Keller, J. R. Sons.....642	Nut Grower.....653	Siggers & Sig-	Young, John &
Co.....641	Rawson Co.....640	Kelway & Son.....641	Ouwerkker, P.....636	248.....655	Co.....648
Carter's Tested	Froment, H. E.....648	Kerr, the Florist.....643	Palmer, W. J. &	See Wm.....628	Young, Thomas,
Seeds, Inc.....640	Galvin, Thos. P.....643	Kervan Co.....648	Son.....643	Skidelsky, S. S.	Jr.....649
Childs, John	Graham, Adam &	King Construc-	Park Floral Co.....642	& Co.....641	Young & Nugent.....642
Lewis.....628	Son.....643	tion Co.....655	Parshelsky Bros.....655	Slinn, R. S., Jr.....649	Zvolanek, Ant. C.....641
Clarke's, D. Sons.....642	Grey, Thos. J.	Knoble Bros.....643	Pennock-Meehan	Slinn, Clarence.....649	
Coan, J. J.....649	Co.....641	Kramer, F. H.....643	Co.....647		
Cooke, Geo. H.....642					

FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE

SEE PAGES 650, 651, 652, 653



Sim's Hybrid Yellow Polyanthus

(Giant English Primrose)

GOLD MEDAL AWARDED AT PHILADELPHIA

This is the best selling novelty in years. They make charming pot plants for Easter and are indispensable for cutting. They bloom from December to May. Now is the time to pot up for spring trade or plant in benches for cut flowers.

Plants suitable for 5 and 6-in. pots.

PRICES

100, \$10; 500, \$40; 1000, \$75: for planting out for cut flowers
100, \$12; 1000, \$100: 500 at the 1000 rate

SIM'S GOLD MEDAL PANSY plants for wintering flowering,
100, \$4; 1000, \$30

WILLIAM SIM, CLIFTONDALE, MASS.

KENTIA SEEDS

NEW CROP—JUST ARRIVED

KENTIA BELMOREANA

KENTIA FORSTERIANA

COCOS WEDDELIANA

Write for Import Prices, stating quantity required

McHUTCHISON & CO., THE IMPORT HOUSE 95 Chambers St., New York

OLDEST AUCTION HOUSE

IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co.
42 Vesey St., New York

Hardy Roses

New York State, two-year field-grown. Can furnish so long as unsold. **THIS FALL** or **NEXT SPRING** Delivery, in own-rooted stock: **GRUSS** and **TEPLITZ** hybrid tea, **HERMOSA** and **CLIMBING WHITE DOROTHY**, all at \$12.50 the 100; **EXCELSA**, the improved Crimson Rambler, at \$10 the 100 f. o. b. New York. **JAPAN BAMBOO CANES**, green dyed, 3 ft. length, per bale of 2500, \$12.50; natural, 6 ft. length, per bale of 1000, \$7.50.

AUGUST RÖLKER & SONS, 51 BARCLAY STREET, New York
or P. O. BOX 752

DO NOT FAIL TO STOCK Primulinus Hybrids

(GLADIOLI)

They contain all the Nasturtium colors, Art shades, Terra Cotta, Apricot, etc.

The last word in dainty decorations

40c. per doz.; \$2.50 per 100;
\$20.00 per 1000

JOHN LEWIS CHILDS, INC.,
FLOWERFIELD L. I., N.Y.

CINERARIA HYBRIDA GRANDIFLORA, 3 in. ready for 4 1/2 in. \$5.00 per 100

CINERARIA STELLATA, Strong 3 in. ready for 4 1/2 in. Mixed Colors, \$5.00 per 100

SMALL FERNS FOR DISHES

Plenty of Holly and Aspidium 2 1/4 in., \$4.00 per 100; \$35.00 per 1000. Adiantum rhodophyllum and cuneatum, 3 1/2 in., very strong plants, \$8.00 per 100.

A. M. DAVENPORT, Watertown, Mass.

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.
WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.
ROOSEVELTS—\$5 per 100, \$40 per 1000.
BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

LILY BULBS

RALPH M. WARD & CO.
71 MURRAY ST., NEW YORK

ORCHIDS

Francisco Delgado Q.

Orchid Collector

Solicits orders for shipments of Orchids,
Prices quoted upon application.

BOGOTA (Chapinero) COLOMBIA

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. - - - BOSTON
Telephone Main 14.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, - N. Y.

ORCHIDS

CONSERVATORY PLANTS

BEGONIAS

Lorraine, Cincinnati and Mrs. Peterson

JULIUS ROEHRS CO.
Rutherford, N. J.

500,000 Giant Pansies

Grown from the Famous Jennings strain of seed. By express, 500, \$2.00; 1000, \$3.50. Large plants in bud and bloom, \$10.00 1000.

CASH WITH ORDER.

H. P. BEERS, GREEN'S FARM
CONN.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toll, we ought to blame the culture, not the soil."—*Pope*.

Care of Carnations

Carnations will do well with a night temperature of 48 to 52. The day temperature should be governed by the weather, not allowing it to rise above 60 degrees on cloudy days or 72 on bright days. Nothing will be gained by getting a few extra flowers in winter by running the houses a few degrees higher, as the plants will be sure to suffer. Where carnations are showing plenty of buds they should get some light top dressing. Examine the benches every day for the dry places which should be watered. After the new year, if the plants are still doing well they will need more food and if available a good lot of rotted stable manure, which also will help to keep the beds from drying out too quickly. Liquid manure can be used to advantage about once a week, or top dressing can again be resorted to, using dried blood or sheep manure or shredded cattle manure in heavier doses.

Violets

Violets are air-loving plants, so see that they have plenty of ventilation. The spraying overhead should not take the form of very heavy spraying now, and from now on should only be done during forenoon. Damping down the houses and wetting down of walks and dampening of approaches should be done only on sunny days. I suppose that everybody who planted a house of violets last spring for the coming season has been painstaking and thorough in the care of same. However, do not think that they are in such good shape that you can afford to neglect them. Look over and thoroughly clean every crown to make sure that no insects or black spot on leaves are carried through the house and look out closely that no aphids of any kind gets a foothold. Violets like to be moist at the roots at all times, but they will not stand anything like a soaked soil all the time.

Orchids

With all orchids now in their winter quarters, some time must be given to cleaning them, and any spare moments are well spent in this way. Temperatures should now be lowered. Few orchids want a close, stuffy atmosphere, so ventilation should be given at all times when possible in greater or less quantity, according to the outside conditions. Watering should now be done early in the morning and the amount of damping down of the floors will, of course, depend on the weather and the amount of fire heat being used. Most orchids will stand full sun now, so let them have it. During sunless weather water should be given with caution.

Next Week:—Care of Fuchsias. Paffodils for Early Forcing; Forcing Ixias; Japan Lilies; Propagating Crotons. Reminders

Spiraea japonica

Unpack the clumps at once when received, as they are sometimes found to be in a very dry state. Soak them well after unpacking and leave them outside to freeze before you pot them. They can be stored in any frames, putting a little earth between the roots and some over the crowns. Let them have the benefit of rain or snow, as it does them good. The imported roots of spiraea or astilbes will soon be here. It takes from ten to fourteen weeks to flower them. Astilbe compacta and Gladstone are popular forcing varieties. When wanted they can be potted into six or seven inch pots, and stood under a bench for the first three weeks, after which they can be given a place on the bench in from 55 to 60 degrees at night.

Sweet Peas

Fire heat is now a necessity, but the plants must have full ventilation. Avoid, however, cold draughts, which may result in an attack of mildew. The night temperature for flowering peas should be kept about 50 degrees and a couple of degrees lower is better as winter progresses. Sweet peas that were planted the end of July will soon be coming into flower. While the demand for sweet peas is not especially vigorous until after the chrysanthemum season has passed, there are customers who want them earlier. Go over the benches carefully before watering, and if the soil is in need of water give it good and plenty. On the other hand, don't water soil which is not really in need of it. An overwatering once in a while might not show bad effects, but a continuation of it will ruin the constitution of the stock in a few days. Look over the early plants every five or six days and give them necessary ties. Syringe on all good days early in the morning so as to keep red spider down.

Reminders

Syringe bouvardias regularly on all good days, and should green they appear give several light fumigations until they disappear.

Mignonette is easily injured by over-watering, either in pots or on benches, so do not be careless about this.

Increase the water supply to callas as the root and top growth extends.

Place crotons where they will get all the light and sun possible, as it helps to give them better coloring.

Watch feeding with liquid manure in all departments. When possible give it only on clear days.

BOOM YOUR BUSINESS
by advertising your goods in the

Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

HORTICULTURE

VOL. XXIV

NOVEMBER 11, 1916

NO. 20

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 147 Summer Street, Boston, Mass.

Telephone, Oxford 292.
 WM. J. STEWART, Editor and Manager.

Entered as second-class matter December 8, 1904, at the Post Office
 at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION— <i>Lilium candidum</i> .	
NOTES ON CULTURE OF FLORISTS' STOCK—Care of Carnations—Violets—Orchids— <i>Spiraea japonica</i> —Sweet Peas—Reminders— <i>John J. M. Farrell</i>	629
ROSE GROWING UNDER GLASS—Feeding—Soil for Potting—The Sod Heaps—Working Ahead— <i>Arthur C. Ruzicka</i>	631
THE EXHIBITIONS—Westchester and Fairfield Horticultural Society—Coming Exhibitions—Northampton (Mass.) Flower Show—New Bedford Show—The Tarrytown Show—Sewickley Horticultural Society—Glen Cove Show—The Boston Show.....	632-633-634
Texas State Flower Show.....	639
THE PHILADELPHIA FLOWER SHOW— <i>George C. Watson</i>	634
CHRYSANTHEMUM SOCIETY OF AMERICA.....	635-637
CLUBS AND SOCIETIES—Meetings Next Week—Florists' Club of Philadelphia.....	637
Society of American Florists.....	644
New York Florists' Club.....	649
OBITUARY—George Cartwright, portrait—William F. Molloy, portrait—Nellie R. Thoires—William Good—Thomas J. Gannon—Michael Donovan—John Skelton Brown—Frank Mitseh—Charles R. Pauter—Frank Sobicek.....	638-639
SEED TRADE—One Week's Imports.....	640
OF INTEREST TO RETAIL FLORISTS:	
New Flower Stores.....	642
Flowers by Telegraph.....	643
Max Schling's Philosophy, Illustrated.....	645
NEWS ITEMS FROM EVERYWHERE:	
Chicago, New York, Washington, St. Louis, Pittsburgh.....	644
DURING RECESS—New York and New Jersey Plant Growers' Outing—Boston Florists' Bowling League..	644
FLOWER MARKET REPORTS:	
Boston, Chicago, New York, Philadelphia, Pittsburgh, St. Louis, Washington.....	647
MISCELLANEOUS:	
Massachusetts Agricultural College.....	640
<i>Lilium candidum</i>	640
News Notes—Business Troubles.....	642
Catalogue Received.....	644
Visitors' Register—New Corporations.....	654
Greenhouses Building or Contemplated.....	654
Gipsy Moth Apparently Eliminated from Ohio, New Jersey and New York.....	654

The laurel folly and the florists' interests

The Society for the Protection of Native Plants makes a fervent appeal through the columns of the Boston newspapers asking the public to exercise discretion in the use of laurel for decorative purposes—this, of course, referring to the native "Mountain Laurel," *Kalmia latifolia*. Attention is called to the fact that this is the most beautiful of our native shrubs, not only in its flowering period, but as a striking feature of the winter landscape. The public are warned that the inroads being made on this typical feature of the New England woods for Christmas dressing of churches and the festooning of ball rooms, buildings, etc., must soon deplete the laurel supply to the extent of near extermination and regret is expressed at the wasteful destruction of floral beauty by the winter cutting of the green laurel boughs which carry the embryo flowers for the coming summer. We heartily concur with the sentiments and applaud the efforts of the friends of the mountain

laurel to preserve it for the beauty of our woods, swamps and pastures and the enjoyment of future generations. One ally they should have is the florists' trade. Floriculture is not advanced nor its interests promoted in the slightest degree by the use of this wild material. More artistic, appropriate and effective results are attainable by the use of florists' and nurserymen's products for every purpose to which the laurel is put. For that reason as well as for the more altruistic one, florists' organizations should join forces with horticultural societies and others in a vigorous crusade against this laurel folly.

A fair deal for the ladies

If there is any one feature more noticeable than all others in connection with florists' organizations and florists' recreations of the present as compared with those of a few years back it is the custom of providing social entertainments in which the ladies are invited to participate. The innovation is a most excellent one and worthy of even wider observance than has yet been given to it. We have noticed that wherever the plan has been given a trial it inevitably becomes a permanent habit, which is just as it should be, for the florists' business is greedy and inexorable in its demands upon his time, depriving his home circle of his companionship in a manner and to an extent equalled in but few other occupations. So it is very proper and right that such consideration as is possible should be given to those who are so often deprived of their rights to his society by the exactions of his vocation.

Sentiment in floriculture

We have read with much interest an article by a correspondent of the Providence Journal on "Why Americans Are not Natural Florists." The correspondent, who states that he had interrogated several successful florists on this question, expresses his convictions that the reasons for the small percentage of American-born men in floriculture are that this is a business where emolument is subordinate to fondness for the avocation and that "sentiment in a matter of business is altogether incompatible with the American inborn spirit of business, which leaves no room for anything but business." He further submits that "to the American grower a plant merely represents a producer of commercial articles, each of which will bring him as many cents as the market will decide." Again the writer avers that "The work simply does not appeal to the American boy." In all of this there may be a modicum of truth, but the sentiments here given currency are simply traditional and habitual as regards American character and as mere repetitions carry little weight. We have the privilege of a large acquaintance with the floricultural people of America and while it is true that a considerable percentage are of foreign birth yet it is also true that among these who have come to us from across the sea one finds many whose money-making proclivities and mercenary estimate of the goods they produce is fully up to the limit of the shrewdest Yankee ever born. It is probably well for the stability of the flower industry that this is so, for "business is business." Yet if it comes to a "show-down" on young men of American birth having a sincere love for their chosen calling, combined with business aptitude, we would suggest a little scrutiny of the young men now studying horticulture at Amherst, Cornell, Urbana, and other institutions of like character and we feel confident that the American-born boy who aspires to a floricultural career will not be found wanting in his devotion to the art, apart from his business instincts. All we need is time and we'll "get there."

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Feeding

As soon as the plants begin to show a large number of red shoots, it is a good sign that they are beginning to come back, and that there will soon be another crop of buds. To help lengthen the stems it will be necessary to feed the plants, as nearly all the plant food that the new crop will take should come out of what is put on and not out of the soil in the benches, as replanting time is a long way off, and the soil must be kept rich or the plants will begin to go back. Care will have to be taken, however, not to overfeed, for they can easily be ruined by large doses of strong manure or fertilizer when not in condition to take it all. Some varieties will take more and stronger feed than others, which fact should be borne in mind when applying mulch or when feeding. Then, too, there may be some benches that are not at the right stage of growth to get the feed. It is not right to go over the place every so often with feed applying it heavy all over. The proper way is to ascertain which benches have a crop just beginning to come, and these only should receive additional feed, in such form as is available and suitable. Never use pure nitrate of soda on rose benches except in rare cases on the harder growing varieties such as Radiance, Stanley, etc. Other strong fertilizers the same way. If applied too heavy, a weak, soft growth is sure to result and a dose of mildew almost sure to follow. Bonemeal is an ideal feed, and no one can go very far from right in applying this. Do not apply too heavy a dose; a light sprinkling is plenty, and for best results should be applied very evenly so that all the plants will get an equal share. Tankage, sheep manure, blood and bone are all excellent things to use at times, but we advise growers to experiment with them before using either extensively. If there is a good supply of cow manure, liquid manure can be made, and this, with a light dose of bone now and then, will give the plants enough to eat. Keep enough mulch on to protect the roots and to have the surface of the soil quite rough at all times.

Soil for Potting

Now is the time to think about the supply of soil for potting, and if there is none put away for the winter it is about the right time to do it now. If there is no

shed handy to store the soil and thus keep it from freezing hard, a large heap can be covered over with leaves or clean straw. The leaves if used should also be clean, raked out in the wildwood if possible, so that there will be little danger of their being affected with some fungus that might get into the soil. If the latter method is to be used it will be best to wait until the ground freezes a couple of inches, and then cover up the heap desired. This will make it better for if it should be covered with the leaves too soon the soil would get wet and stay wet, and getting no air it would soon lose a goodly portion of its "life" and plants potted in this soil would not respond so readily as in soil bubbling over with life. When storing the soil in a shed make sure that it is well ventilated. The left-over soil heaps will make excellent potting soil and these should be chopped down and brought in now if the work has not been done already.

The Sod Heaps

In sections where the soil is heavy, work on the sod heaps should go right on until they are all put up. If things keep as they are it will be difficult to get the heaps up next spring, so if there is any chance at all go on with the work now. The soil is still in a fairly dry condition, and is not so hard to handle as it will be later. If the manure for the heaps is not on hand now, what there is can be made to go further by putting in only very thin layers and later on when manure is plentiful it can be hauled and stacked right on the heap. Then if the winter should be mild the sod heap can be cut down after enough manure is put on top, and the whole business turned over. Or the work can remain until early spring. It should, however, be done some time before the soil is to be used in the benches so that the manure will have plenty of time to work through and put this into condition for the plants.

Working Ahead

With help scarcer it will be well for growers to work ahead as much as possible. Thus the soil that is taken in for potting can be screened, sand can be screened also for the propagator next month and many other things may be done in advance if time will at all permit.

**For
Thanksgiving Day
Trade**

Everything you will need in Flowers, Plants and Supplies for all departments can be procured from the advertisers in HORTICULTURE.

They are the best houses in their various lines, and they use HORTICULTURE because it is THE medium through which they can best reach the SELECT TRADE.

THE EXHIBITIONS

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

The exhibits at the sixth annual autumn exhibition of this society, in Greenwich, Conn., were of marked superiority. There was keen competition throughout the entire schedule of 121 classes and the affair was a social and financial success. Noteworthy features were the numerous trade displays (eight in all), the scarcity of the "big blooms" and the increasing prominence of single and pompon types of chrysanthemums, also the unusual display of outdoor flowers. The increasing interest of the amateurs who do not employ paid assistance is gratifying to note. The marked tendency towards better decorative effects as evidenced by the numerous groups of cut flowers, decorated dinner tables, baskets of flowers, centerpieces, etc., is also worthy of note. Manager J. B. McArdle was ably assisted by Thos. Ryan, to whom the society is indebted for the staging of a very effective exhibit. The judges were Jas. Blair, Staatsburg, N. Y., Wm. Turner, Oceanic, N. J., Geo. Middleton, Tarrytown, N. Y., and Ernest Wild, Morristown, N. J., whose fair and impartial decisions were received with universal satisfaction.

Among the novelties noted was a display of seedling chrysanthemums, anemone flowered type, exhibited by Scott Bros., Elmsford, N. Y.; the new yellow rose Mme. Collette Martinet from A. N. Pierson, Inc., attracted a great deal of favorable attention and was highly commended. This new rose is of elegant form and of rare fragrance. J. B. McArdle exhibited the new double-flowered cosmos. This should prove valuable for the florist as well as for garden decoration. Certificates of merit were awarded to Baldwin & Co. for orchids; Lager & Hurrell, for orchids; Mills & Co. for dahlias; Chas. H. Totty, for chrysanthemums; A. N. Pierson for seedling chrysanthemums and roses; Scott Bros. for anemone flowered chrysanthemums. J. B. McArdle was highly complimented for general display, and Stamford Seed Co. for display of sundries. Special awards to private growers were: certificate of merit to Alex. Geddes for seedling single chrysanthemum; cultural certificate to Wm. Morrow for *Eucharis amazonica*, also C. of M. for *Cycas Rumphii*; special prize to P. W. Popp for basket of pompon chrysanthemums; 1st prize for group of chrysanthemum plants went to Robt. Grunnert; 1st for cut chrysanthemums went to Wm. Graham, gard. for Mrs. E. C. Converse; 1st for foliage and

Coming Exhibitions

Nov. 9-11, Lancaster, Pa.—Fall flower show.

Nov. 9-12, New York—Fall exhibit Horticultural Society of New York at Museum of Natural History.

Nov. 10-12, Cleveland, O.—Second Annual Flower Show, Hotel Hollenden.

Nov. 11-19, New Orleans, La.—Flower show.

Nov. 13-15, Newark, N. J.—Essex County (N. J.) Florists' Club, Palace Hall, Washington and Bleeker Sts.

Nov. 14-15, Providence, R. I.—Flower show of R. I. Hort. Soc.

Nov. 14-18, Baltimore, Md.—Annual Exhibition Maryland Horticultural Society.

Nov. 15-17, Dallas, Texas.—Texas State Flower Show, under the auspices of the Texas State Florists' Association.

flowering plants to Robt. Allen, gard. for E. C. Benedict; sweepstakes for largest bush plant, W. J. Sealey, gard. for Chas. Mallory; 1st for table decoration, Wm. Whitton, gard. for Mrs. J. H. Flagler, who also won the prize for the largest bloom of the show. The principal winners in the decorative classes were Fred Lagerstam, gard. for J. Topping, and Thos. Aitchison, gard. for Mrs. Nathan Strauss. P. W. Popp, gard. for Mrs. H. Darlington, was 1st for outdoor flowers; Wm. Smith, gard. for Robt. Mallory, 2nd, who was also 1st for specimen orange tree. In the potted chrysanthemum classes the chief winners were W. J. Sealey, gard. for Chas. Mallory; Thos. Ryan, gard. for John Downey; John Orr; G. D. Sullivan, gard. for Mrs. W. G. Nichols; C. Hankenson, gard. for A. G. Smith; J. B. Andrew, gard. for Mrs. L. C. Bruce; Wm. Whitton, gard. for Mrs. J. H. Flagler; Fred Metzler, gard. for Mrs. A. M. Zabriskie; Fred. Lagerstam, gard. for F. A. Topping. In the cut flower classes the most successful were Mrs. Flagler; Mrs. Ernest Iselin, gard. Duncan McIntyre; Mrs. E. C. Converse; Mrs. J. D. Barron, gard. Jas. Linane; A. G. Smith; Geo. Lowther, gard. Emil Johnson. In the pompon and single classes the honors were shared by Adrian Iselin, Jr., gard. Jos. Tiernan; Mrs. H. Darlington; Mrs. E. C. Converse; Mrs. F. A. Constable, gard. Jas. Stuart. In the carnation classes the principal winners were Mrs. Converse, Robt. Grunnert, Mrs. Nathan Strauss and J. B. Cobb. In the rose classes Chas. Smith, gard. Anton Pederson; Mrs. Oliver Hoyt, gard. Jas. Foster, and Mrs. Flagler. In the miscellaneous cut flower classes the prizes were divided by Robt. Grunnert and P. W. Popp; in the orchid classes E. C. Benedict, Mrs. Darlington, Mrs. Oliver Hoyt, Mrs. H. O. Havemeyer, J. B. Cobb and Mrs. F. A. Constable. On ferns and palms the winners were Mrs. O. Hoyt, Robt. Mallory, Mrs. Havemeyer and John Orr. Fruit and vegetable and classes for amateurs were all well filled.

P. W. Popp, Cor. Sec

NORTHAMPTON (MASS.) FLOWER SHOW.

The fourth annual flower show of the Northampton and Holyoke Florists' and Gardeners' Club opened in city hall on Nov. 1, when Mayor and Mrs. William H. Feiker were presented by President A. C. Butler with a handsome bouquet of flowers. The Mayor responded in a gracious manner and the show was declared officially opened. The show this year was the biggest and best ever held here. Some wonderful large blooms were exhibited, William Turner carrying off the honors. Not even at the Boston show were there to be found such blooms, not only of Turners, but of the other exhibition chrysanthemums. Although the show was much smaller than the Boston show, its quality was decidedly better and in all classes there was keen competition. James Whiting, foreman of the greenhouses at the Mass. Agricultural College, received first award, the Skinner cup, for a vase of twelve blooms of William Turner. The class for the best specimen bloom was captured by F. D. Keyes & Son of Florence. An exceptionally good display was shown in the carnation classes, with Butler & Ullman leading. This firm also carried off the honors in the rose classes and for group of decorative plants. The latter was arranged with strips of bark, artificial moss, water feature, begonias "Gloire de Chateleine," and adiantum, with a few palms and a centre of *Cibotium Scheidei*.

In the basket classes there were a large number of entries and the workmanship and choice of materials was remarkable. Several dinner tables also added attractiveness to the show, the winning table being one of yellow and white pompon chrysanthemums, arranged by G. S. Sinclair of Holyoke.

In the class of wedding flowers Gallivan Bros. of Smith's Ferry carried off first honor. Special mention should be made of the exhibit of evergreens by E. J. Canning and also the exhibit of economic plants by the Smith College greenhouses.

Winning exhibits other than those mentioned were various plant groups by G. S. Sinclair & Son, R. S. Carey, F. D. Keyes & Son, Butler & Ullman, Mass. Agri. College, Smith College and Gallivan Bros. Chrysanthemum blooms were well staged by James Whiting, Butler & Ullman, G. S. Sinclair & Son, F. D. Keyes & Son, and Gallivan Bros. The carnation winners were substantially the same exhibitors.

Special exhibits were made of roses by H. M. Robinson & Co., Boston, F. P. & P. M. Pierson, Scarborough, N. Y., and A. N. Pierson, Cromwell, Conn., also carnations by S. J. Goddard. Other exhibitors were D. O. MacGregor, gard. for H. R. Lyman estate, Geo. Strugnell, gard. for C. E. Mackintosh estate, Carl Hammond, gard. at State Hospital and Alex. Parks.

NEW BEDFORD SHOW.

The sixth annual Chrysanthemum Show of the New Bedford Horticultural Society, Nov. 2-3, was a marked advance over previous exhibits. The local florists came forward much more liberally than ever before and their groups of chrysanthemums interspersed with foliage plants helped amazingly in breaking up the set effect produced by row upon row of cut blooms. Peter Murray, H. A. Jahn, R. H. Woodhouse and James Garthly each had very attractive tables of this sort, the latter producing the finest effect with the smallest number of plants and flowers, due, no doubt to the touch of the female hand, his wife taking charge of the arrangement. The display of chrysanthemums and foliage plants occupying 40 sq. feet of space was closely contested by the old-time rivals, Mr. Roy and Mr. Griffin, as was the class for 18 blooms, Mr. Roy winning by a narrow margin.

Personally, I think the judging was excellent in all classes provided for in the schedule, but where displays were not classified some of the awards were lamentable. Following the custom so prevalent among the minor horticultural societies, awards of merit were distributed indiscriminately to exhibits where no award whatsoever was deserved. Simply because no provision is made for certain displays is no excuse for minimizing the value of this form of award.

The displays in competition were works of artistic arrangement and the cut flowers, if one likes monstrosities, were grand. A vase of six blooms of H. E. Converse was simply great, and a vase of pink of medium-sized flowers attracted much attention.

The finest blooms shown were the following, ranking in the order named: Mrs. A. S. Watt, Melton, Master Rese, Earl Kitchener, Onunda, Lady Hopetoun, Mrs. Boggs, Mrs. G. Drabble, Daily Mail and Mrs. Mitchell. Among the amateurs Louis Macy had a very attractive display and F. G. Tripp put up an unusual display for this season of the year consisting of upwards of 100 dahlia blooms in prime condition. W. F. TURNER.

THE TARRYTOWN SHOW.

Exhibitors from big estates up the Hudson, including many well-known New Yorkers, contributed to make the eighteenth annual flower show of the Tarrytown Horticultural Society, which opened in the Music Hall, Tarrytown, on Nov. 1, one of the best that has ever been given. The Tarrytown shows are not large as flower shows go, but the promoters boast that they are second to none in the country in quality. The competitors are private estates, the few commercial growers who exhibit not competing. Mrs. Finley J. Shepard, Sam'l Untermyer, John D. Rockefeller, Jr., Wm. Rockefeller, F. A. Vanderlip, David L. Luke, P. M. Warburg, W. B. Thompson, F. C. Luckenbacher and other names widely known in the world of commerce and finance appeared on the list of prize winners, through the cultural skill of their respective gardeners. As usual, F. R. Pierson made a superb display of his products. A splendid table of hot-house fruit from Mrs. F. E. Lewis, of Ridgefield, Conn., was a potent attraction. There were dinner table decorations on the closing

days but the results of the rivalry have not been communicated to us yet. Most of the prizes offered were specially contributed.

SEWICKLEY HORTICULTURAL SOCIETY.

The Chrysanthemum Show of The Sewickley, Pa., Horticultural Society was held on Nov. 2-4 and was a great success in every way. The attendance of the public taxed the hall to the utmost for the three days and a larger hall would have shown off the exhibits to better advantage. The following are some of the awards: 18 blooms in 6 varieties won by Mrs. E. M. Horne, gard. Manus Curran, with good flowers of Mrs. R. C. Pulling, Odessa, Wm. Turner, Elberon, Meudon and Daily Mail. H. L. Mason, gard. J. Murphy, was 2nd and H. J. Heinz, gard. A. A. Leach, 3rd. Nine blooms in 3 varieties, 1st, Dixmont Hospital, gard. Carl Becherer; 3rd, W. P. Snyder, gard. Wm. Thomson.

Twelve blooms, 12 varieties, 1st, Mrs. E. M. Horne, 2nd, H. J. Heinz, 3rd, R. B. Mellon. In the color classes for three blooms the winners were R. B. Mellon and Miss W. T. Thaw, gard. John Jones, with Mrs. R. C. Pulling, Wm. Turner, Nerissa and W. Meise in their respective colors. R. H. Boggs, gard. R. Taylor won on pompons and singles. For any variety not in commerce Mrs. E. M. Horne won out with a seedling from Dorothy Davis and was also 1st in several other important classes. On display of cut blooms Dixmont Hospital was 1st and the McCallum Co. won in the class for 50 yellows with fine Mrs. Morgans and in white carnations with White Enchantress. Winners in the rose classes were H. C. Frick, gard. Jas. Fraser, Watson Estate, gard. Herman Rapp and R. H. Boggs.

On group of 100 sq. ft. foliage and flowering plants Mrs. C. E. Horne was winner, also on specimen chrysanthemum and group of bush plants. Other leading winners in various plant classes were R. H. Boggs, Mrs. Wm. Thaw, C. D. Armstrong, gard. T. E. Tyler, Mrs. W. P. Snyder, gard. Wm. Thomson, H. J. Heinz, C. D. Armstrong and Farmhill Estate. On vegetables Mrs. J. D. Lyon, gard. John Barnet, Mrs. J. F. Byers, gard. A. E. Bousey, Mrs. J. B. Oliver, gard. John Reig.

The table decorations on Saturday brought out five competitors, and the winners were Mrs. E. M. Horne, gard. M. Curran, 1st, R. H. Boggs, 2nd and Mrs. J. D. Lyon, 3rd. Chas. H. Totty of Madison sent an exhibit of chrysanthemums including White Doty, also Wm. H. Waite a fine gold and reddish flower, Louis Pockett, incurved white, and Golden Champion an immense flower on the Rose Pockett color. E. D. Smith & Co. sent some novelties including Miss Wright, Calumet and Smith's Sensation. The exhibit of The Pittsburgh Cut Flower Co. was a great attraction, outstanding being five vases of roses and collection of single and pompon chrysanthemums. The Valley Greenhouses exhibited snapdragon Helen Walker and Wm. Allen of Homewood Cemetery had on view a brownish sport of Lilian Doty. Farmhill Estate displayed stove and flowering plants. The judges were Jas. Wiseman, Fred Burki and Alex Davidson.

GLEN COVE SHOW.

The twelfth annual Chrysanthemum Show of the Nassau Co. Horticultural Society, which was held in Glen Cove, N. Y., on Nov. 2 and 3, was one of the finest this society has ever held. The cut blooms were of the very largest size and finest finish, while the various specimen plants and plant groups showed an acme of perfection that reflected the greatest credit on the skill of their growers. The roses, carnations and vegetables were of an equally high quality and competition in practically every class was of the keenest kind. The various exhibits were artistically arranged under the capable direction of Show Manager James Gladstone, ably assisted by James Holloway and Harry Goodband.

There were two groups of plants most tastefully arranged, one a group of chrysanthemum plants by Robert Jones, gardener for Percy Chubb, the other a group of flowering and foliage plants by Robert Marshall, gardener for J. R. Delamar. The four classes for double and single chrysanthemum bush and standard were each won by Robert Marshall with James McCarthy gard. for W. E. Kimball and Harry Gaut gard. for Herbert S. Pratt 2nd respectively. Other winners in the plant classes were Robert Marshall, Geo. Ferguson, gard. for Payne Whitney, and Robert Jones. In the cut flower classes Robert Jones was almost invulnerable. He was 1st winner in seventeen class and won 2nd in six. His vase of twelve flowers arranged for effect was probably the finest in the show, immense blooms of Mary Mason, perfectly finished and beautifully arranged with autumn foliage. His Wm. Turner was the largest flower in the show. Several 1st prizes went to Henry Gaut, George Ferguson and Jos. Robinson, gard. for W. R. Coe. Geo. Ferguson, Robert Marshall, James McCarthy, Henry Gaut, John Everitt and Thos. Flynn, gard. for J. H. Ottley, were among the winners of 2nd honors. In the vegetable classes Robt. Jones, Wm. Norman, Frank Petroccia and Jos. Robinson were winners.

There were eleven entrants in the class for the best table decoration and the ladies who judged this class had a difficult task to select a winner, as all were very beautifully executed. They finally decided to award the first prize to George Ford, assistant gardener for John T. Pratt. 2nd to George Ferguson, 3rd to William Noonan. The rest of the exhibition was judged by Walter Angus, Ewen McKenzie and Howard Nichols. A vase of double flowering cosmos exhibited by Harry Goodband attracted favorable attention and was awarded a certificate of merit. Robert Marshall received a cultural certificate for a specimen chrysanthemum plant.

JAS. MCCARTHY, Cor. Sec.

Redwood City, Cal.—W. E. Eglington won the glass and silver vase offered by the Aphine Manufacturing Co. for the best table of orchids covering sixty square feet, arranged for effect, at Forester's Hall, Redwood City, at the Fall Flower Show of the Menlo Park Horticultural Society, held on Oct. 27, 28 and 29.

THE PHILADELPHIA FLOWER SHOW

The Annual Fall Exhibition of the Pennsylvania Horticultural Society took place this week lasting four days. Both in quantity and quality of exhibits it was better than last year's show and reflected credit on the exhibitors and the management. The main attraction of course was the chrysanthemum and rarely have we seen finer flowers, especially in the cut bloom section. The pot plants were good also—many of them remarkably fine—although we cannot say that on the whole they were quite up to what has often been seen here. In the hardy chrysanthemum classes, there was an especially fine showing. These are yearly increasing in popularity and the annual exhibitions are largely responsible in educating the public taste to their great value.

Next in importance to the chrysanthemum came the orchids. There were three splendid displays of these, the most spectacular being the Widener decoration on the stairway landing—staged for effect—and it certainly was effective. The mirrors, and the fountain in the center of the picture, gave it the finishing touch that made the visitors go into ecstasies of admiration. Nothing finer than this has ever been done here and we all bow to William Kleinheinz for this masterpiece. From a different standpoint, Louis Burk deserve equal credit. He put up an educative collection of orchids consisting of over eighty varieties—the rarest and choicest the world affords, beautifully staged and correctly and legibly named so that every passerby could instantly "read, learn and inwardly digest." A very good showing of orchids was also made in the Wanamaker display of foliage and flowering plants. Mr. Dodds in this connection was particularly proud of one fine specimen of *Laelia*—the *Basil Enid* × *Mantini*—one of Stuart Low's new seedlings.

In foliage plants and ferns Wm. Robertson and Thomas Long carried off the premier honors. John Hobson's big eight-foot crotons occupied the center of the upper hall and well deserved this prominent position. The croton is Hobson's Hobby and we have still to see the man who can beat him at it.

In the commercial exhibits there were some fine displays, especially the stage front of Dreer's ferns, palms and foliage plants, and Michell's rotunda display of hardy chrysanthemums and other seasonable features. Thomas Meehan & Sons put up a nice exhibit along the same lines as did also the Strafford Flower Farms and John Kuhn. The Robert Craig Co., made a fine showing of their croton culture in commercial sizes. Adolf Muller exhibited an in-

teresting collection of trained box-
roosters, chickens, peacocks and so forth. We did not see any of them named John L. Sullivan, Lily Langtry or Jim Corbett so there is no suggestion intended here as a stimulus to the boxing game; but just a hint to the possibilities in the Italian style of landscape adornment. But probably the most interesting of all the commercial exhibits was the Burpee display of their new strain of large-flowering gladioli, grown from seed sown but five months ago. They showed not only great size of flower but splendid form and substance and a wide range of most magnificent colors. George Kerr, Burpee's superintendent who has had everything to do with this wonderful development was kept busy telling the story of the origin, the crossing and the selecting which has finally attained this wonderful result. Just think of it; gladioli equal to the finest we know—from seed the same season as sown. We used to think of them as a three-year proposition—now with this strain we get as good results in five months or less.

And, speaking of novelties, we must not forget to mention the new strain of winter-flowering begonias, shown by William Kleinheinz. The flowers are three times the size of *Lorraine*—graceful and open in habit and with quite a range in color, one being a beautiful brilliant crimson. There is also a double form in red which is very fine.

The center of the lower hall was occupied by an aquarium exhibit. Another of the same kind was shown in the rotunda. Not being gifted with the usual reportorial brilliancy we confess being unable to tell a fish story—so we will simply pass this part of the show over by saying that it seemed to please the multitude. But how such exhibits can be conducive to the advancement of horticulture, for which the Pennsylvania Horticultural Society was founded we leave for wiser heads than ours to expound. There was also a ginger ale exhibit. (That pleased the Ginger Jar) so you see we are getting along. By and by we may have trained bears and talking pigs and Annette Kellerman in her diving acts. (Isn't she the Water Lily?) Hosea Waterer made a very nice display of high class bulbs and sundries. The Lord and Burnham Co. were in it. The King Construction Co. were there. The Davey Tree Doctors showed up. So taking it all in all it was a pretty good show.

One of the greatest features of the show was the surprise party the outside exhibitors gave the local boys on Wednesday morning. Some wonderful exhibits came along. Chrysanthemums, roses and carnations—for the second day's prizes. One of the bright particular stars was William Duckham with flowers of such perfection in varieties like *Turner*, *Nerissa*, *Rigby*, *Hopetown*, *Converse*, *Pulling*, etc., that the local experts almost had a fit

when they saw what they were up against. Charles H. Totty also showed up strong. Among the most notable in the latter's exhibit was a collection of new anemone-flowered seedlings raised by Paul Schaefer. These were very fine indeed and so remarkable in size, form and color that they are bound to be heard from in future. Wallace R. Pierson was on hand with an exhibit of the new yellow rose *Mme. Martinetto*, a 1916 *Pernet-Ducher*, which seems full of promise, and a new dark red carnation. The Cottage Gardens Co. made a beautiful exhibit of their new pink carnation *Cottage Maid*. Among the out-of-town visitors to the show we had the pleasure of greeting W. A. Manda of South Orange, N. J., Earle Mann of Richmond, Va., E. Allan Pierce, of Waltham, Mass., L. J. Reuter, of Westerly, R. I., W. R. Pierson, of Cromwell, Conn., Paul Dailedouze of Flatbush, N. Y., Charles H. Totty and Wm. Duckham of Madison, N. J. and many others of high renown.

Postscript: Charles L. Seybold, supt. of Parks Wilkesbarre, sent down a most interesting collection of hardy cyclamens, including a number of new and fine ones never seen here before. We hardly expected an up-state-burg to make the metropolis sit up and take notice like that. Also Elmer Smith came down from Michigan and showed us some new things in his mild but effective way, and that makes us say "quit, or else you'll be saying the postscript is getting lady-like—the most interesting part of the letter." We could make this story shorter if we had the time to go over it again. Excuse the length.

GEORGE C. WATSON.

THE BOSTON SHOW.

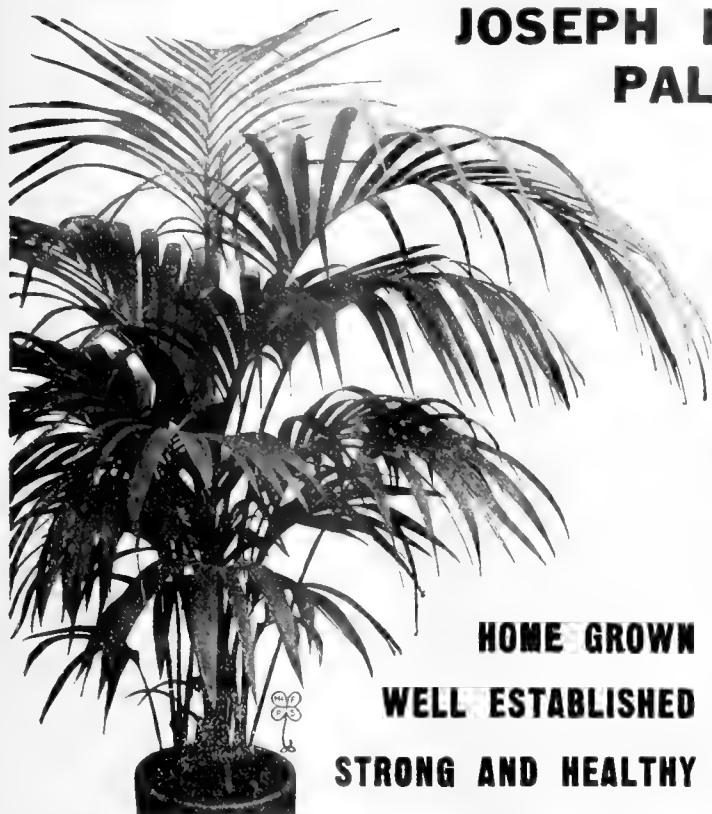
In addition to the main list of prizes awarded at the Autumn exhibition of the Massachusetts Horticultural Society, which we published last week, the following awards were made on the last days of the exhibition:

Chrysanthemums.—Vase of ten blooms on long stems, pink: 1st, Mrs. Lester Leland; 2d, R. E. Traiser. Ten blooms, red: 1st, Mrs. Lester Leland. Ten blooms, white: 1st, James Nicol; 2d, R. E. Traiser. Ten blooms, yellow: 1st, Mrs. Lester Leland; 2d, R. E. Traiser. Most artistic vase of chrysanthemums, with any foliage: 1st, W. W. Edgar, with Robert Halliday; 2d, W. W. Edgar, with Chieftain. Carnations—Six vases, fifty blooms each: 1st, Strout's; 2d, A. A. Pembroke. One hundred blooms, mixed varieties: 1st, J. W. Minott; 2d, A. A. Pembroke. Twenty-five blooms (for private gardeners only): 1st, W. H. Wellington; 2d, Mrs. Alice Slas.

Gratuities. Kameyama & Serada, group of flowering and foliage plants; Mrs. C. G. Weld, display of winter-flowering begonias; C. H. Totty, collection of chrysanthemums; Blue Hill Nurseries, seedling evergreens.

Silver medal.—Mrs. C. G. Weld, display of winter-flowering begonias. First class certificate of merit: A. W. Preston, *Cattleya Folia alba*. Honorable Mention: Mrs. C. G. Weld, *Begonia Apricot*; Charles E. Holbrook, seedling rose, *Christy Miller*; N. Richmond; C. H. Totty, chrysanthemum, *W. H. Waite*; A. A. Pembroke, carnation, sport of *Behara*; Strout's seedling carnation, No. 9; Blue Hill Nurseries, seedling evergreens.

JOSEPH HEACOCK COMPANY'S PALMS AND FERNS



**HOME GROWN
WELL ESTABLISHED
STRONG AND HEALTHY**

CIBOTIUM SCHIEDEI.

Each

9 in. tubs, 5 to 6 plants in tub..... \$5.00

KENTIA BELMOREANA.

Leaves	In. high	Each	Per doz.
2 1/2-in. pot..... 4	8-10		\$ 1.50
3 in. pot..... 5	12		2.50
4 in. pot..... 5-6	15	\$.75	5.00
5 in. pot..... 6-7	18-20	.75	9.00
6 in. pot..... 6-7	22-24	1.00	12.00
6 in. pot..... 6-7	26-28	1.50	18.00
6 in. pot..... 6-7	30	2.00	24.00
7 in. cedar tub..... 6-7	34-36	3.00	36.00
7 in. cedar tub..... 6-7	38-40	4.00	48.00
9 in. cedar tub..... 6-7	40-42	5.00	60.00
9 in. cedar tub..... 6-7	42-48	6.00	

KENTIA FORSTERIANA.

Leaves	In. high	Each	Per doz.
6 in. pot..... 5-6	24	\$1.00	\$12.00
6 in. pot..... 5-6	30-32	1.50	18.00

KENTIA FORSTERIANA, Made-Up.

	In. high	Each
7 in. cedar tub, 4 plants in tub.....	30-36	\$ 3.00
7 in. cedar tub, 4 plants in tub.....	38-40	4.00
9 in. cedar tub, 4 plants in tub.....	40-42	5.00
9 in. cedar tub, 4 plants in tub.....	42-48	6.00
	Ft. high	
9 in. cedar tub, 4 plants in tub.....	4-4 1/2	7.50
12 in. cedar tub, 4 plants in tub.....	6-7	18.00
12 in. cedar tub, 5 plants in tub.....	7-8	22.00

JOSEPH HEACOCK CO.,

**Railway Station
Jenkintown**

WYNCOTE, PA.

CHRYSANTHEMUM SOCIETY OF AMERICA

The annual meeting of this society was held this week in Philadelphia in connection with the exhibition of the Pennsylvania Horticultural Society. The address of the president and reports of other officials follow:

Annual Address of President William Kleinheinz

Gentlemen and Fellow Members of the Chrysanthemum Society of America:

Once more we are assembled to honor the Queen of the Autumn, and to consider means and ways to increase the general interest in cultivation, and to improve the high standard of the Chrysanthemum. As your President, it gives me pleasure to welcome you at this convention in the City of Philadelphia, and I hope that you will not regret that you have selected Philadelphia for this meeting.

The exhibits at this meeting speak for themselves. The large-flowering varieties seem to be at their highest, and the raisers of new varieties have to be wide-awake to keep in line with the present sorts. It seems almost im-

possible to improve on the existing varieties, but, our hybridizers are never idle and keep on improving with astonishing results. Not only the large flowering types have the attention of our scientific breeders, but the pompons, singles and decoratives have also been taken care of. Great improvements have been made during the past ten years.

Again I must make some remarks about the membership of this society. I have referred to this at the past two meetings, and have pointed out what good the Chrysanthemum Society of America does to the chrysanthemum growers, but the number of new members is mighty small. I again call on every one interested in chrysanthemums to give us their support, and join our society. The dues per year are only two dollars, and the members get well rewarded by the work this society does. I hope my successor as president will have the pleasure to see the membership passing the five hundred mark.

Since our last meeting, one of our most successful hybridizers and introducers of new chrysanthemums has passed away, William Wells, of Mersham, Surrey, England. His products are known over the whole world, and

for many of our best varieties we have to thank Mr. Wells.

To the trade press, I wish to express my thanks for the many courtesies extended to the officers of the society during the past year. I also feel it my duty to thank all the donors of handsome prizes, enabling us to work out such a fine schedule for competition. To the various committees who examine seedlings and sports, I must express the thanks of the society for their prompt and correct work.

To the officers and members, I extend my thanks and appreciation for their support during my three terms as your president. Our society must prosper while our members continue to support and back up our officers. I regret very much that I am not in a position today to announce a great financial prosperity during my terms, I assure you that if it would be within my power this society would be the strongest of all in membership and financial standing. I close with best wishes to my successor, may he be able to accomplish and finish the work started and carried on by the officers in the past for the good of this society.

Secretary Chas. W. Johnson's Report

Our Society continues to make progress and though we do not get the increased membership we should, the work of the Society along the lines of improving the standard and popularizing the Chrysanthemum is being recognized more each year. Your Secretary notes this particularly by the increased correspondence that comes to him throughout the year in comparison to the first years of his work. The interest in the new va-



NEW CARNATION COTTAGE MAID

A Sport of Mrs. C. W. Ward

A splendid new carnation with the same habit of growth, quality of flower and keeping and shipping qualities as its parent.

Winner of first prize in its class at Cleveland, fall of 1915 and winner of the prize for keeping qualities after being shipped from New York.

Winner of first prize in its class at the St. Louis Carnation Show 1916, and Sweepstakes as the best one hundred vase in the Show. These carnations were shipped from New York in warm weather and were in the box nearly forty-eight hours.

Winner of first prize at the Grand Central Palace Show for two years and other prizes and certificates too numerous to mention.

Price for rooted cuttings
\$12.00 per 100; \$100.00 per 1000

STOCK LIMITED

COTTAGE GARDENS CO., Inc., QUEENS, NEW YORK

CARNATIONS

Field Grown

ENCHANTRESS SUPREME, EUREKA
WHITE WONDER, PINK DELIGHT.
\$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL,
MATCHLESS,
\$7.00 per 100; \$55.00 per 1000.

LADY NORTHOLIFF, PINK WINBOR,
WHITE WINBOR.
\$6.00 per 100; \$50.00 per 1000.

WOOD BROS., FISHKILL, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ELMER D. SMITH & CO.
CHRYSA NTHEMUMS

Ask for Catalogue

ADRIAN, - - - MICH.

CHARLES H. TOTTY
CHRYSA NTHEMUMS
MADISON, N. J.

ROBERT CRAIG CO., ROSES, PALMS,

and Novelties in Decorative Plants.
MARKET and 45th STREETS, PHILADELPHIA, PA.

HYDRANGEA OTAKSA & AVALANCHE

Field grown plants, ready for 6-inch pots;
\$14.00 per 100.

ANGLIN & WALSH CO.
W Liamsbridge, N. Y.

BOBBINK & ATKINS

Nurserymen, Florists
and Planters

RUTHERFORD, NEW JERSEY

CHRYSA NTHEMUM ALEX. GUTTMAN

The best Early Lavender-Pink in the Market. Blooms have been selling for \$6.00 per dozen since middle of September. Stock Plants, 75c. each, \$7.50 per doz.

GUTTMAN & RAYNOR, INC.
Wholesale Florists
101 West 28th St., New York, or FRANK
DINDA, Farmingdale, N. Y.

A. N. Pierson, Inc.
CROMWELL, CONN.
Bedding Plants and Roses

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
HATBORO, PA.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Mosses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 276 Jane St., Westchester Heights, P. O. No. 1, HEBKON N. J.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY. Small, medium and large sizes supplied. Price list now ready.

THE D. HILL NURSERY CO.
Evergreen Specialists. Largest Growers in America.
BOX 418, DUNDEE, ILL.

AZALEA INDICA AND HOLLAND BULBS**At Auction on WEDNESDAY, NOV. 8, 1916****AT TEN O'CLOCK, A. M.****Also PALMS, FERNS, DRACAENAS, ETC.****The MacNiff Horticultural Co.****52 to 56 Vesey Street, NEW YORK****THE LARGEST HORTICULTURAL AUCTION ROOMS IN THE WORLD**

ieties continues and the work of the examining committees is being greatly appreciated, and a seedling that has the endorsement of the committees is recognized by the commercial growers as being worthy of a thorough trial.

The reports of the examining committees were sent to the trade papers each week as they were received and a final summary of the season's work was published. The trade press very generously printed these and other notices sent to them from time to time for which we owe to them our vote of thanks.

A ticket of admission to the National Flower Show held in Philadelphia, April, 1916, was mailed to all members in good standing on the secretary's books.

You will notice a change in the class for the C. S. A. silver cup. Our president kindly offers a silver cup for a class similar to the C. S. A. class of other years, thus making the change necessary. Class B is arranged according to the suggestions of the committee appointed at the last annual meeting.

Your secretary appreciates the kindness of the following firms and individuals for offering the special prizes at this exhibition:

Wm. K. Harris, Henry A. Preer, Hosea Waterer, Robert Craig and Henry F. Michell, Philadelphia; Hitchings and Co. and Lord & Burnham Co., New York; Chas. H. Totty, Madison, N. J.; E. G. Hill Co., Richmond, Ind.; Elmer D. Smith & Co., Adrian, Mich.; President Wm. Klendenz, Ogontz, Pa.; Philip J. Foley, Chicago, Ill.; Wells & Co., Mersham, Surrey, England; H. E. Converse, Marion, Mass., and National Association of Gardeners.

Owing to the intense heat during the past summer the growing season this year was a hard one on the plants and Mr. Totty reports that the growers in the eastern states are having a great deal of trouble with a disease which seriously affects the growth of the plants. It would be a good thing if any member having this or any other trouble with the plants would give us the benefit of his experience so that it may be included in the annual report.

The routine work of the secretary's office, consisting of sending out the statements to the members, recording the varieties disseminated, getting out the report of the fourteenth annual meeting and the solicitation of the special premiums was attended to in due season.

The secretary wishes to acknowledge the kindness of Elmer D. Smith in furnishing him with a complete list of varieties disseminated in 1915

Meetings Next Week**Monday, Nov. 13.**

Cleveland Florists' Club, Hollenden Hotel, Cleveland, Ohio.

Gardeners' and Florists' Club of Baltimore, Florists Exchange Hall, Baltimore, Md.

New York Florists' Club, Grand Opera House, New York City.

Rochester Florists' Association, 95 Main St., East Rochester, N. Y.

Tuesday, Nov. 14.

American Association of Park Superintendents, New Orleans, La.

Newport Horticultural Society, Newport, R. I.

Wednesday, Nov. 15.

Rhode Island Horticultural Society, Public Library, Providence, R. I.

Tarrytown Horticultural Society, Tarrytown, N. Y.

Thursday, Nov. 16.

Essex County Florists' Club, Kreuger Auditorium, Newark, N. J.

New Orleans Horticultural Society, Association of Commerce Bldg., New Orleans, La.

North Westchester County Horticultural Society, Mt. Kisco, N. Y.

Tacoma Florists' Association, Macabee Hall, Tacoma, Wash.

Friday, Nov. 17.

North Shore Horticultural Society, Manchester, Mass.

which was a great help in getting up the annual report.

A detailed report of all money received and paid over to the treasurer accompanies this.

Treasurer John N. May's Report.

No. 1, 1915 to Nov. 2, 1916 Credits, \$800.08
 No. 1, 1915 to Nov. 1, 1916 Disbursements 442.02

Balance on hand..... \$198.06

Report on New Varieties.

The following report of new chrysanthemums has been submitted by the committee appointed by the society:

Exhibited at Philadelphia, Oct. 28:

By Henry F. Michell Co., Philadelphia, Pa. Name of variety, Gorgeous;

color, daphne red; small flowered single; points com. 79. Name of variety, Delicata; color, cameo-pink; large flowered single; points com. 86. Name of variety, Rosamundi; color, persian lilac, shading to pink; large flowered single; points com. 88.

By Elmer D. Smith & Co., Adrian, Mich. Name of variety, Miss Anola Wright; color, pink; Jap. Inc.; points com. 85. Name of variety, Smith's Imperial; color, white; Jap. Inc.; points com. 89. Name of variety, Miss Anola Wright; color, pink; Jap. Inc.; points com. 85. Name of variety, Smith's Imperial; color, white; Jap. Inc.; points com. 89.

By C. C. Pollworth Co., Milwaukee, Wis.; name of variety, Mrs. C. C. Pollworth; color, yellow; Jap. Inc.; points com. 89.

Exhibited at Chicago, Oct. 28:

By Elmer D. Smith & Co., Adrian, Mich.; name of variety, Smith's Imperial; color, white; Jap. Inc.; points com. 94. Name of variety Yondola; color, pink; Jap. Inc.; points com. 88. Name of variety, October Herald, color, bronze yellow; Jap. Inc.; points com. 93.

By the E. G. Hill Co., Richmond, Ind.; name of variety, Niphetos; color, white; Jap. Inc.; points com. 90. Name of variety, Richmond; color yellow; Inc.; points com. 91.

By C. C. Pollworth Co., Milwaukee, Wis.; name of variety, Mrs. C. C. Pollworth; color, yellow; Jap. Inc.; points com. 89.

CHAS. W. JOHNSON, Sec'y.

FLORISTS' CLUB OF PHILADELPHIA.

The first monthly meeting under the new Farenwald administration was held on the 7th inst. There was no speaker of the evening and the proceedings were mostly of a formal and business nature of little interest except to the members of the club. Committees were appointed to serve for the year, the chairman of each being as follows: Games—George Burton; novelties—Robert Kift; civic—Louis Burk; essay—W. F. Therkindson; membership—Wm. Kleinheinz; club room—A. T. Moore.

TREES

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties.

Sturdy, choice stock that can be depended upon. Send for catalog and special trade prices.

The Bay State Nurseries

North Abington
 Mass.

SHRUBS

This New England land and climate produces fine, sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us visit you.

BULBS BOXWOODS AT AUCTION

Do Not Forget Salesdays — Monday and Thursday
Consignments Solicited

JOHNSON & MILLANG, Inc., Auctioneers

Coogan Building, 55-57 West 26th Street, New York

(Under Cut Flower Exchange)

Salesdays Monday and Thursday at 10 A. M.

10,000 square feet devoted to our auction business

WRITE FOR CATALOGUE

Obituary

George Cartwright.

George Cartwright, secretary and treasurer of the Boston Flower Exchange and well known in the cut flower trade of Boston for almost half a century, died at his home in Roxbury, Mass., on Thursday, Nov. 2, at the age of 71 years. Mr. Cartwright was born in England, coming to this country with his parents at the age of 12 and settling in Wellesley, where his father, James Cartwright, carried on a florist business. As a young man he



GEORGE CARTWRIGHT.

started in business for himself in Dedham, Mass., making a specialty of Niphotos roses. Next year would have been his 25th anniversary in office with the Flower Exchange, where he also at one time filled the office of vice-president. He had been in failing health for a year or more, but was at his post in the flower market until two days before his death.

About 38 years ago he married Miss Anna Seitz, of Roxbury, who survives, with a daughter, Mrs. Emma Taggart, of this city, and two sons, Edward S. Cartwright, of California, and F. J. Cartwright, of New York; also one sister, Mrs. Annie S. Morgan, of Boston, and four brothers.

Mr. Cartwright was a man of rare qualities of graciousness, unselfishness and fidelity. He was moderate in speech always, never censorious, harsh with none. Universally loved for his unswerving integrity and sympathetic heart, his death brought sincere grief to a wide circle of friends. His funeral, on Sunday, was attended

by sixty or seventy of his associates in the flower trade. The floral tributes were many and none finer have ever been seen in Boston. The testimonial from the Flower Exchange was a massive wreath of cattleyas, Hadley roses and lily of the valley and palm leaves about five feet across, most creditable to the good taste of Sam'l Beck, who was the designer.

Wm. F. Molloy.

The Boston flower trade lost one of its sterling men in the passing away of William F. Molloy on November 7, at the Morse Hospital in Natick, Mass., after a painful illness lasting about two months. Willie Molloy, as he was familiarly known, has been the Boston representative of the Budlong Company for many years. He was born in Wellesley 57 years ago. His father was long in the employ of Edmund M. Wood, Waban Conservatories, and William started as a boy with Mr. Wood, later acting as his salesman in Boston, his sister who afterwards became the wife of Robert E. Berry being bookkeeper at the greenhouses. Leaving Mr. Wood's employ he was a member of the wholesale flower firm of N. F. McCarthy & Co. for several years, but later sold his interest to Mr. McCarthy and returned to his old job for a time, finally taking the position of sales agent for Budlong. He never married. The cause of his death was internal malignant tumors.

No more honest, straight forward and likeable man than William F. Molloy has ever been identified with the florist trade of Boston. His friends included every one in the business with whom he came in contact. In the words of his old partner, N. F. McCarthy, "he was truly one of God's noblemen." The funeral on Thursday, Nov. 9, was largely attended by members of the trade.

Nellie R. Thoires.

Daughter of James M. Thoires, the leading retail florist of Camden, N. J., died on Nov. 4. From almost childhood she had been delicate, and as early as fifteen almost succumbed to rheumatism. Years later she had other attacks of the same kind (nearly taking her off), complicated with heart trouble. Little Nell was the dearest, sweetest, most courageous little spirit! She was keenly intellectual and made all who came in contact with her bow to her wit, wisdom and common sense. No one knew her but to love her. Dear little Nell. Good bye. We shall all miss you.

G. C. W.

William Good.

William Good, well-known for thirty years or more in the retail florist trade of Boston died at the City Hospital in Boston on Wednesday, Nov. 8, as the result of being struck by an automobile the previous night while

attempting to cross Commonwealth avenue, which fractured his skull. Mr. Good, who was 55 years of age, had been employed by several of the leading flower stores of Boston as salesman and designer and at the time of death was with Sidney Hoffman. He has a brother in New York, Frank Good, also in the florist business.

Thomas J. Gannon.

Thomas J. Gannon, one of the victims of the South Boston trolley car accident on Nov. 7, was a native of Ogdensburg, N. Y. Up to early last October he was employed as a gardener by Joseph S. Williams of Jamaica Plain. Nothing is known of his present address by his late employer, Mr. Williams. When he left it was supposed



WILLIAM F. MOLLOY.

he would return to Ogdensburg as he had stated such were his intentions. Gannon was unmarried and about 32 years of age.

Michael Donovan.

Another of Newport's veteran gardeners, Michael Donovan, died on Nov. 1, in his 75th year. He had lived in Newport the greater part of his life, and for many years was gardener and caretaker of the estate of the late Thomas Winans, and afterward for his son, Ross Winans. Mr. Donovan is survived by a brother and by several nephews and nieces.

John Skelton Brown.

John Skelton Brown, aged 83, for years engaged in the nursery business in Rochester, N. Y., died on Thursday, Oct. 19, at his home in Browncroft, just outside of Rochester. Mr. Brown was born in Boston, Mass. He leaves one son, one daughter, four grand-



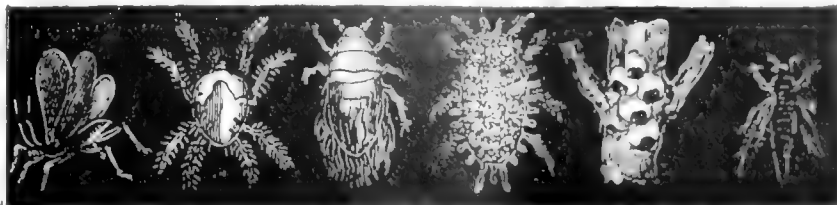
Unequalled for Greenhouse and
Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

Hammond's Thrip Juice No. 2

REGISTERED

A Contact Insecticide, Useful and Reliable, Used for 30 Years in Greenhouses, and on Plants, Grape Vines, Trees and Shrubs



Some common Sucking Insects, magnified.

HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.

Fall Spraying "SCALECIDE" Does the Work Controls Leaf Curl Cleans up the Trees

Don't put off the dormant spray until the spring rush. The weather may be bad or the ground too soft. Spray this fall and make sure of controlling peach leaf curl, San Jose scale, pear psylla, apple canker, collar rot, etc. You can save trees now that would die before spring. Use "Scalecide." Better and cheaper than lime sulphur—cuts the labor

cost. Never injures trees, hands, face or pump. Cost of spray materials will advance before spring. Order now and save money. Write today for free booklet, "The Whys and Wherefores of Fall Spraying." B. G. PRATT CO., Manufacturing Chemists. Department 12. 50 Church Street, New York City.

children. Interment was on Sunday, October 21, at Rochester.

Frank Mitseh.

A collision between a street car and an automobile in which he was riding caused the death on last Saturday night, of Frank Mitseh who is well known to many of the Chicago florists as a builder of green houses. He erected among others the Frank Oechslin houses. He lived at 1934 Estes Ave., Evanston, Ill.

Charles R. Panter

Charles R. Panter, well known as a florist and secretary of the New Orleans Horticultural Society, died at his home in New Orleans on Oct. 25. He was a native of Bedford, Eng., having come to this country over thirty years ago. His age was 54 years.

Frank Sobicek.

Frank Sobicek, employed by a florist in Blue Point, N. Y., was found dead in the cellar of his home on Nov. 2 by his wife under circumstances which District Attorney Ralph Greene and Coroner Edwin S. Moore believe indicate feud murder.

TEXAS STATE FLOWER SHOW.

November 15-16-17.

As the dates for the Third Annual Flower Show to be conducted by the State Florists' Association draw near, interest in the event increases. Numbers of the florists from over the state have reported that they will be present with exhibits, and several large florists out of the state will be there with large exhibits. The premium list has been completed and mailed out, and it covers a wide range of subjects and entries in all classes, and competition for the prizes is expected to be sharp.

Those out of the state who have re-

served space for exhibits, who have not been previously reported are: Joy Floral Company, Nashville, Tenn.; Denver Wholesale Florists' Company, Denver, Col.; Stuppy Floral Company, St. Joseph, Mo.; Poehlmann Bros., Chicago, Ill.; Furrow & Co., Guthrie, Okla.; Gullett & Sons, Lincoln, Ill.; H. S. Ely & Company, Neosho, Mo.

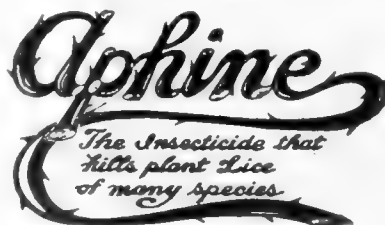
The following firms have made donations of the items mentioned, for the benefit of the Association in conducting the show. These items to be used as premiums, and will be placed on exhibition during the flower show:

E. C. Amling Company, Chicago, flowers; Ralph M. Ward & Co., New York, case of Liliun Giganteum bulbs; Foley Greenhouses Manufacturing Company, Chicago, 12 sash; Sefton Manufacturing Company, Chicago, flower boxes; Denver Wholesale Florists' Company, Denver, Col., flowers; Vaughan's Seed Store, Chicago, 12 baskets; Baker Bros., Fort Worth, Tex., \$12.00 worth of shrubs; H. Kaden, Gainesville, Texas, 12 two year old roses; Texas Nursery Company, Sherman, Texas, 25 new roses valued at \$10.00. A cash donation has been made by Kroeschell Bros. Company, Chicago.

There is yet room for several more exhibits and florists in every section of the state are urged to send their flowers and plants for exhibition even if they can not attend in person. All flowers or plants that may be sent will receive the closest attention. Florists out of the state are also invited to send their flowers and plants, and everyone far and near is invited to attend the show. Any information will be gladly given by Henry Greve, Dallas, Texas, chairman of the Flower Show Committee.

Ample publicity is being given this show in Dallas and surrounding territory and a very large attendance is expected.

L. J. TARKER, Sec'y.
Texas State Florists' Ass'n.



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.
Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGICIDE, VERMIFIDE and SOIL-KILLER will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON



NIKOTEEN

For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer For It.

NICOTINE MFG. CO.
ST. LOUIS

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

One Week's Imports

Imports at the port of New York of horticultural material, for the week ending Oct. 27th, were recorded as follows:

Bulbs—France, \$1,144; Netherlands, \$106,097; England, \$634; Bermuda, \$10; Hongkong, \$843; Japan, \$12,948.

Plants—Belgium, \$25,986; France, \$72; Netherlands, \$19,925; England, \$3,240; Bermuda, \$15; Trinidad, \$177; Colombia, \$1,110; Japan, \$57.

Red clover seed—France, \$40,156.

Clover seed—France, \$9,534; Canada, 4,747.

Grass seed—Denmark, \$15,437; England, \$316; Scotland, \$292.

Other seeds—Netherlands, \$493; England, \$6,022; Trinidad, \$6; Argentine, \$42; China, \$43; France, \$748; Hongkong, \$157.

Nitrate of soda—Chille, \$164,565.

MASSACHUSETTS AGRICULTURAL COLLEGE.

Last week the senior class planted the violet house. The variety planted is Princess of Wales.

The junior classes are receiving practical work in potting cuttings and bulbs for forcing. The reglazing of a part of one of the houses has already been finished by the class.

The special class at the Northampton Show open to students of M. A. C. resulted in a very close competition. There were 14 entries, and the judges agreed it was the most difficult class of the whole show to judge. 1st prize was won by H. G. Clancy, of Natick, with a small basket of Peter Pan chrysanthemums, ribbon to match, and Asparagus sprengeri. 2nd prize was won by H. S. Saidel, of Worcester, for a basket of Golden Queen chrysanthemums adorned with yellow chiffon. Another particularly good basket was one of Russell roses.

The Annual Flower Show of the floricultural department will take place this week (Nov. 11, 12 and 13). In addition to the local display, several of the florists of Boston—including H. M. Robinson & Co., Penn the Florist and Thomas F. Galvin have volunteered to send exhibits. There are 80 odd classes, 20 of which are open to the florists of the Connecticut Valley. The department extends a cordial invitation to all the florists of the state to visit the show. Those who are fortunate enough to possess an automobile will find a trip to Amherst to be full of surprises, wonderful scenery and much pleasure. On Monday evening there will be a joint business meeting of the Holyoke & Northampton Club and the M. A. C. Club, followed by a lively social with a good time for all. Prof. Nehrling, Mr. Whiting and Mr. Wildon are hard at work on the details of the show, which include the construction of a pergola, water feature and floral art frames.

SPECIAL OFFER TO FLORISTS

LILIUM FORMOSUM (Black Stem)

Size	7 to 9 inch,	cases of 300,	per case, \$15.30
"	9 to 10 "	" 175,	" 14.00

LILIUM LONGIFLORUM MULTIFLORUM

Size	7 to 9 inch,	cases of 300,	per case, \$13.20
"	9 to 10 "	" 200,	" 14.20
"	10 to 11 "	" 150,	" 14.55

Just arrived from Japan in fine condition. Not less than one case sold.

J. M. THORBURN & CO.

53 Barclay Street, through to 54 Park Place,

NEW YORK CITY



SEEDS for the FLORIST

ASTERS QUEEN of the MARKET.

The best extra early variety, large, double flowers, on long stems, in colors: Crimson, Dark Blue, Light Blue, Rose Peach Blossom, White.

Trade Packet, 20c., Oz., 75c.

Sweet Peas, Cyclamen, Primulas, Lily of the Valley, from Our Own Cold Storage Plant.

Our Trade List Mailed on Application.

FOTTLER, FISKE, RAWSON CO., THE SEED STORE BOSTON
Faneuil Hall Square

SHAMROCK TRUE IRISH

Trade packet 25 cts., oz. \$1, ¼ lb. \$3, lb. \$10

5% Discount, Cash with Order.

ARTHUR T. BODDINGTON CO., Inc.
128 Chambers Street, New York

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes
Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of
Commerce Bldg., Boston, Mass.

LILIUM CANDIDUM.

(See Cover Illustration)

The Annunciation or Madonna Lily has for centuries been one of the most honored occupants of European gardens and in this country also it has received its full mead of attention. Although one of the easiest of all lilies to grow there are some essential points in its culture which must be carefully observed if one is to have continued success. This lily delights in an open, sunny, fresh air situation. It needs no specially prepared soil and is perfectly at home in ordinary garden soil but it must have thorough drainage. In England it is seen at its best when planted by the side of cottage or garden walks among an edge-

ing of rocks or other material conducive to good drainage.

Our illustration shows this beautiful lily planted on a gravelly hillside at the Mt. Desert Nursery, Bar Harbor, where there is a small amount of loamy soil and no opportunity for water to stay around the bulbs at any season.

Mitchell's Distinctive Seeds
Catalogue free
518 Market St. - Phila.

Lilium Harrisii Bulbs

	Per 100	Per 1000
5 in. to 7 in.	\$4.50	\$36.00
7 in. to 9 in.	8.00	72.00

PAPER WHITE NARCISSUS GRANDIFLORUS

Prices on Application

WE OFFER to FLORISTS a
CHOICE SELECTION of HYA-
CINTHS, TULIPS, Etc. Etc., for
forcing or outdoor planting.

Send us a list of your require-
ments and we will give you at-
tractive special prices.

J. M. THORBURN & CO.

53 Barclay Street
Through to 54 Park Place
NEW YORK CITY

KELWAY & SON SPECIALIZE IN SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or
Forward

Only Address, LANGPORT, Eng

Burpee's Seeds PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT

J. BOLGIANO & SON WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragons on
the market. For pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.
PHILADELPHIA, PA.

My new Price List of
WINTER-ORCHID-FLOWERING SWEET
PEA SEED

Has been mailed. If you have not received
a copy, send me postal. Part of new crop
will be ready early in July.

ANT. C. ZVOLANEK
Sweet Pea Ranch Lompoc, Cal.

FARQUHAR'S GOLD MEDAL CYCLAMEN



Awarded Gold Medal of
the Massachusetts
Horticultural Society

Strong Plants from
4 inch pots, for
delivery now, at
\$25.00 per 100.

R. & J. FARQUHAR & CO., 6 South Market Street
BOSTON

LEONARD'S SEEDS and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

LILIUM GIGANTEUM SEEDS, BULBS, PLANTS

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

NEW CROP SEEDS

PANSY SEED. Giant flowering florist mix-
ture. American grown. (Best money can
buy.) 50c. per tr. pkt., ¼ oz. \$1.50, oz. \$5.00.
PANSY SEED SPECIAL. Greenhouse mix-
ture for forcing; long-stemmed. \$1.00 per
tr. pkt., ¼ oz. \$1.50, ¼ oz. \$2.50; oz. \$5.00.
SWEET PEAS. Zvolanek's Orchid Flower-
ing in all varieties. I have his agency
this season.

ROMAN J. IRWIN,
Plants, Cuttings, Bulbs, Seeds.
108 West 28th Street - New York.

THOMAS J. GREY COMPANY
SEEDS, BULBS AND IMPLEMENTS
WHOLESALE AND RETAIL.

Reselected Strains in Seeds.
Improved styles in Implements.
Catalogue upon application.

29 So. Market Street
BOSTON, MASS
BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

AND

Florists' Necessities

AMERICAN BULB CO.

172 N. Wabash Ave., Chicago, Ill.

LILIUM FORMOSUM LILIUM HARRISII LILIUM GIGANTEUM

Prices on Application. Write for 1916
Bulb Catalog.

JOSEPH BRECK & SONS' CORP.
47-54 North Market St., Boston, Mass.

W. E. MARSHALL & CO. SEEDS, PLANTS AND BULBS Horticultural Sundries

166 W. 23rd St., NEW YORK

GARDEN SEED

BET, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
seeds of the short crop of this past season.
As well as a full line of Garden Seeds, will
be quoted you upon application to

S. D. WOODRUFF & SONS
82 Day St., NEW YORK and ORANGE, CONN

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

Penn
The Florist

"The Telegraph Florist"
Member of Florists' Telegraph Delivery

124 TREMONT ST.
BOSTON

FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

MAX SCHLING

22 West 59th St.

Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

The **Park Floral Co.**

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York

Telephone 1509-1543 COLUMBIA

Of Interest to Retail Florists

NEW FLOWER STORES.

Oberlin, O.—Humm & Wainwright.

Wakefield, Mass.—A. S. Parker, 395 Main St.

Jamestown, N. Y.—C. R. Betts, 312 W. 3d St.

Sandusky, O.—W. R. Parker, 208 W. Market St.

Rockland, Me.—Glaentzel, the Florist, School St.

Mattapan, Mass.—Senger Bros., 1385 Blue Hill Ave.

Baltimore, Md.—The Pierce Co., 415 N. Howard St.

Walla Walla, Wash.—Miss Grace Kelly, Elks Bldg.

Oak Park, Ill.—John Zeeh, Madison St. and Grove Ave.

Springfield, Mass.—Mark Aitken, removing to 372 Main St.

Kansas City, Mo.—Fred Fromholdt, successor to the Larkin Flower Shop.

Pasadena, Cal.—The Rosebud, 286 E. Colorado St. Henry A. Siebrecht, Hotel Maryland annex.

New York, N. Y.—Henry Hart, 1000 Madison Ave. John Flessas, 665 Columbus Ave., succeeding Geo. J. Polykranas.

NEWS NOTES.

Miss Jeanetta Drysdale Lee, became the bride of W. Atlee Burpee, Jr., on Nov. 1, in St. James P. E. church, Philadelphia.

West Medford, Mass.—Joseph Maden is home from the front with many pleasant memories of El Paso but glad to resume his peaceful work as florist.

Syracuse, N. Y.—George B. Hart of Rochester bought the stock in the flower store of the Chester A. Harris estate, bankrupt, at auction on October 28.

BUSINESS TROUBLES.

Middlefield, Ct.—J. N. Nettleton, nurseryman, assets, consisting of real estate, \$1,875, liabilities, \$1,956.61.

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers Special Correspondence in all the large cities of Europe and the British Colonies Telegraph and Cable address Dardsflor.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE National Capital

At your service to deliver Flowers or Designs on Order by Telegraph or otherwise. Prompt Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

J. B. KELLER SONS,
FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2126
Members Florists Telegraph Delivery

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction

MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
We take good care of your orders
Members of F. T. D. Association.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1836 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1891 and L 1888.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND. Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Member Florists' Telegraph Delivery Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Byres, 106 State St.
Albany, N. Y.—The Rosery, 23 Steuben St.
Albany, N. Y.—William C. Gloeckner, 97 State St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn. the Florist, 124 Tremont St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th St.
Cleveland, O.—The Smith & Feters Co., 735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.
New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—A. T. Bunyard, 413 Madison Ave., at 48th St.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. B. Pier-son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—H. F. A. Lange.
Worcester, Mass.—Randall's Flower Shop 3 Pleasant St.

REUTER'S

Members Florist
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence
ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only
THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention.

HOLM & OLSON, Incorporated
ST. PAUL, MINN.



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F.T.D. Association

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

A. E. Hunt, well-known grower of Evanston, is opening a retail store in that suburban town.

Miss L. A. Tonner is in Baconton, Ga., where she and her two sisters each have pecan groves.

Paul Manzie, of Wilmette, had the misfortune to lose a part of his place by fire on Oct. 30. Loss \$800.

F. W. Matthiesson, of LaSalle, Ill., has purchased valuable lake property at Oconomowoc, Wis. Simmons & Co., of Chicago, landscape architects, will have charge of the grounds.

A dense fog last Sunday morning caused several accidents. Among those who lost their lives were two north shore gardeners, John Andrews and Wm. Swanson, of Glenview.

In order to stimulate a more lively public interest in the carrying out of the plan for the City Beautiful the illustrated lecture has been named "The Tale of One City," a bright idea and one that bids fair to succeed.

The Chicago Florists' Club will hold its regular meeting this month on Thursday, Nov. 16, instead of Nov. 9, on account of the State Florists' Association. The nomination of officers will take place at this meeting.

The new departure in giving a flower show in which several new features are combined, is calling forth a diversity of opinions. On the whole it is regarded with favor. Attendance by invitation, the ball room of a large hotel, and a distinct aim at the artistic arrangement rather than the perfection of the individual flower or plant, puts this show in a new class.

Paul Klingsporn, manager of the Chicago Flower Growers' Association, is one of many to voice the sentiment of a better education for the flower buying public, so they will know the difference between the fresh flowers that are worth the money, and the kind of stock sold at the department and ten cent stores. But the knowledge might be used to advantage when buying in the flower stores also!

The committee composed of J. Wietor, George Asums and Thos. Head met at Wietor Bros.' wholesale house, Nov. 4, and passed upon the pompon Jas. Hamilton Lewis sent by Peter Reinberg. It is a very pretty yellow with narrow rim of pink and the flower is full and round. E. G. Hill sent in a large pure white chrysanthemum called Snowbank, but it was so injured in transit as to be worthless.

The work of educating the public in the use of flowers is being helped along by some of the women's clubs, which have programs devoted to floral topics. The "Ridge" is a street upon which are located many large greenhouse establishments, and the Ridge Woman's Club has a floricultural department which had Miss Lena McCauley for its speaker on Wednesday last, subject, "Historic Gardens." Miss McCauley is secretary of the Horticultural Society of Chicago.

NEW YORK.

H. W. Thomas, of the D. C. Arnold Co., has returned to his post with health much improved.

Ladies' Night at the New York Florists' Club Monday evening, November 13. See notice elsewhere.

As we go to press the American Institute Chrysanthemum Show is near its closing and the exhibition of the Horticultural Society of New York is opening.

Mercantile properties in the Fifth avenue zone, above Forty-second street, valued at \$1,000,000, have been transferred to the Oceanic Investing Company of this city. One is the six-story building at Fifth avenue and Forty-sixth street, which is under a twenty one year lease to Thomas F. Galvin Co., of Boston and New York.

The management of the International Flower Show has offered a prize of \$100 for the best poster depicting the attractions offered at the show, to be held March 15 to 22, 1917, at the Grand Central Palace. Mrs. Edna Woolman Chase, editor of "Vogue"; Theodore A. Havemeyer, of the Horticultural Society of New York; John Young, of the New York Florists' Club, and R. G. Hollaman, president of the International Exposition Company, will act as judges.

WASHINGTON, D. C.

The flower shop in the Arcade building has been purchased by C. E. Jenkins, who has for the past two years been managing the business for C. E. Brooks.

Experiments with curcubita and waterlily diseases are being conducted in New York and Greenpoint, N. Y., by Frederick V. Rand, of the Bureau of Plant Industry.

Ben. Diedrich had a narrow escape from serious injury last week when he drove his automobile delivery wagon into a horse-drawn vehicle, running afoul of two large railroad ties which protruded from the sides of the latter. The automobile was badly damaged.

C. E. Brooks is now located in his new quarters at 1527 Fourteenth street, N. W., a store vastly superior to the former one. The icebox and wrapping counter are located in the center of the store, dividing the space so as to provide a workroom in the rear. Mr. Brooks is very well pleased.

ST. LOUIS.

Grimm & Gorly had the decorations at the Busch wedding. The flowers were very costly, including orchids, lily of the valley and Beauties.

Shaw's Garden has opened its annual chrysanthemum show to the public. An endless variety of the finest greets the visitor. The special sensation is the Wm. Turner, white, blooms measuring 12 inches. The show will continue all month.

PITTSBURGH.

Both the Ludwig Floral Co. and the E. C. Ludwig Co. had handsome floats in the parade for the Pittsburgh charter centennial.

Albert F. Vick of the Pittsburgh Cut Flower Co. has returned from Rochester, N. Y., where he was called owing to the serious illness of his father, Frederick W. Vick, the veteran florist. At the time of writing Mr. Vick is slightly improved.

DURING RECESS.

N. Y. & N. J. Plant Growers' Outing.

The second inspection outing of the N. Y. & N. J. Plant Growers took in the Long Island district. A. L. Miller was manager of the exercises, and that settles its quality. Among the places visited were W. H. Siebrecht, T. W. Langan, Philip Haas, Anton Schultheis, Louis Dupuy, J. M. Keller, Dreyer Bros., Knight & Struck, A. L. Miller, John Scott, Peter Wagner, Louis Schmutz, Jr., Chas. Koch, Louis Schmutz, Sr., and Alfred Zeller. Among the participants from New Jersey and New York City were J. H. Fiesser, Julius Roehrs, C. Madsen, H. C. Steinhoff, J. Austin Shaw, Chas. Schwake, R. J. Irwin, Chas. Loechner, H. Baumann, Jos. Baumann, Paul Fischer and John Burnie. The majority made speeches at the "symposium."

Boston Florists' Bowling League.

Scores recorded November 2, 1916:

FLORIST - ARCH STREET.				
Robinson	404	401	413	1218
Penn	436	397	437	1370
Galvin	410	458	456	1394
Waban	515	441	446	1402
Flower Ex.	445	418	425	1288
M & M	457	432	450	1339
Flower	404	400	412	1216
Snyder	420	389	397	1206
N. E.	391	380	412	1183
Carbone	409	435	431	1275

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Public notice is hereby given that as no objection has been filed, the following registration becomes complete.

Rose Mrs. Sarah Yeats, by J. E. Yeats, Champaign, Illinois.

JOHN YOUNG, Sec'y.

October 28, 1916.

CATALOGUE RECEIVED.

H. Bayersdorfer & Co., Philadelphia, Pa.—Folder for Fall Season of 1916. Here is a publication which will be perused with intense interest by every florist into whose hands it may come. There are twelve large pages of illustrations of standard florists' supplies in every useful class, new and attractive designs in plant and flower baskets and other receptacles which every up-to-the-minute florist should have in stock for the approaching demand. Pictures and prices are attractively printed in green ink.

ALWAYS LEADERS!

When you buy Bayersdorfer & Co. goods you get the best in the world.

BUY YOUR FALL SUPPLIES NOW

BASKETS BASKETS BASKETS

Chrysanthemum Baskets in Japanese novelty tints.

RED—RED—RED—specialties for Thanksgiving.

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Hampers and Flower Bowls.

Stock up now and have the goods to show customers. Send for prices and see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

Manufacturers and Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for Catalogue

MAX SCHLING'S PHILOSOPHY.

An article entitled "What My Business Has Taught Me," by Max Schling, illustrated with photographs, appears in the November number of *System*, published by A. W. Shaw Co. of Chicago. The paper is in Mr. Schling's inimitable and forceful style. *System* which makes good claim to the title "The Magazine of Business," commends Mr. Schling's philosophy and says that "while his ideas are by no means new, somehow or other he gives them a new twist." Regarding values and profits, Mr. Schling says:

"Cheap stuff does not mean a poor quality of stock. Cheap stuff means a flower or plant of good stock at a cheap price; and if a florist buys cheap stock of the kind I think of, he will never take advantage to sell it otherwise than in accordance with the standard of honest business men—to sell it at fair profit, regardless of petty expenses like packing, care and such."

Concerning the relationship of a man to his business and his employees, Mr. Schling says:

"We have to do our work and oversee their work at the same time. We should have untiring ambition when we make up a bouquet or a wreath or a basket. We should not wrong ourselves by asking 'Isn't it pretty?' We must ask them: 'How do you like it?' We can listen to criticism and ask ourselves if this is warranted. We should try to improve our work from day to day, and when we make something, no matter how pretty we may think it is, we should ask ourselves. 'Is it well enough made. Can't we make something better?' And this spur to ourselves to do better will improve our knowledge and will certainly show in our work."

"Our business—does it belong to us or do we belong to it?"

"A business man who feels himself the proprietor and nothing else, loses his hold on his business sooner or

later. A business man is only proprietor or owner of his business in his own private life. The moment he steps into the business surroundings where his activity is necessary to keep the business in progress, where his mind is really the soul of the business, he is not less an employee than any of his other employees. He is there to see that the goods sold, are sold right. He must teach his salesmen, if they do not know it, how to do it right. He must instruct his buyers. He has to understand book-keeping and do bookkeeping. He has to be a gardener, a florist, a designer. It does not harm him if he knows how to sweep his own place and to deliver his own orders.

"A business man should be able to replace any of his workmen and

should in the average small business be able to match the knowledge of every one of his employees. What they all know together he has to combine in his own self, and his ambition should be to know it better than the others, so that when he gives an order he can look straight into the eyes of his employees and not blush over his incompetency."

He puts up a forcible argument on how to make friends and permanent customers through liberality, fairness and broad-gauge policies in serving the public and explains in detail the methods which he has found successful in the conduct of his own business.

We should gladly give room to Mr. Schling's article in full but our space is too limited. It will pay any florist to peruse it carefully.



"How Do You Like It?"

BOUVARDIA

The double pink and white variety, stems 18 to 24 inches long. Something exceptionally fine. The best stock \$6.00 per 100.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

EDWARD REID

WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES and all Seasonable Varieties of Cut Flowers

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our

Metal Designs, Baskets, Wire Work & Novelties and are dealers in Decorative Glassware, Growers and Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.35. 50,000...\$8.00. Sample free. For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 2860 Madison Square

WOODROW & MARKETOS

WHOLESALE

Plantmen and Florists

37 and 39 West 28th St., NEW YORK



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262 B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Nov. 9		ST. LOUIS Nov. 6		PHILA. Nov. 6	
Roses						
Am. Beauty, Special	20.00	to 23.00	30.00	to 40.00	25.50	to 30.00
" " Fancy and Extra	17.00	to 20.00	20.00	to 30.00	15.50	to 20.00
" " No. 1 and culls	2.00	to 6.00	4.00	to 6.00	6.00	to 12.00
Russell, Hadley	2.00	to 8.00	4.00	to 8.00	2.00	to 15.00
Killarney, Hillingdon, Ward, Extra	4.00	to 5.00	4.00	to 6.00	4.00	to 8.00
" " Ordinary	.50	to 2.00	.....	to 2.00	1.00	to 3.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 5.00	.....	to	4.00	to 8.00
" " Ordinary	.50	to 2.00	.....	to	1.00	to 2.00
Ophelia, Mock, Sunburst, Euler, Extra	3.00	to 6.00	4.00	to 6.00	4.00	to 8.00
" " Ordinary	.50	to 2.00	.....	to 2.00	1.00	to 3.00
Carnations	1.00	to 2.00	1.00	to 2.00	.50	to 3.00
Cattleyas	25.00	to 40.00	.....	to 50.00	25.00	to 40.00
Dendrobium formosum	.....	to 50.00	.....	to .....	.....	to
Lilies	5.00	to 6.00	.....	to 15.00	6.00	to 10.00
Lily of the Valley	4.00	to 5.00	.....	to 6.00	3.00	to 6.00
Snapdragon	1.00	to 2.00	.....	to	1.00	to 4.00
Chrysanthemums	4.00	to 12.00	5.00	to 25.00	3.00	to 25.00
Violets	.25	to .40	.25	to .35	.15	to .35
Gardenias	.....	to 50.00	.....	to	20.00	to 30.00
Adiantum	.....	to 1.00	.....	to 1.00	.75	to 1.00
Smilax	18.00	to 20.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	20.00	to 35.00	25.00	to 35.00	25.00	to 50.00

J. A. BUDLONG

WILLIAM F. KASTING Co.

Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

The flower market is BOSTON "standing pat" at present in nearly every item.

Early in the week the carnation emerged temporarily from the monotony of inactivity which has fallen upon the market and stiffened up a little in price for a day or two. Other than that there has been no movement worth chronicling. Dullness pervades every department of the trade as usual at this particular juncture and this condition is further aggravated by the spell of warm weather which increases the blooming, but decreases the demand for flowers.

The Chicago market is CHICAGO a most discouraging proposition just now.

What began a week ago has continued day by day and not much light is ahead. The sudden dropping off of demand explains the situation in the minds of some and the great influx of chrysanthemums, by local growers and from California, which has forced the prices down to a marked degree, is the reason offered by others. Probably both causes contribute, for the demand is very light and confined almost exclusively to funeral work, and the supply is very great, with a large proportion of inferior quality. Carnations are meeting the same fate and fine stock will not move at any price. Shipping trade is lighter because every outside florist is just now supplying his trade with his own chrysanthemums which are naturally preferred to other kinds of stock in November. Roses are worked off to the street fakirs or go into the barrel as the wholesalers have opportunity, and the stocks today literally "blossom as the rose." Every wholesale counter is a flower show of itself and the proprietors and their assistants have plenty of time to discuss causes and effects.

There is very little NEW YORK to be said concerning the flower trade this

week other than that the huge avalanche of chrysanthemums continues unabated and the low ebb of business and values recorded last week shows no sign of turning. Cattleyas are moving somewhat better than of late. There seems to be an increasing demand for boxes of mixed orchid sprays which is interesting and should serve as a pointer for the future as the quantity of spray orchids commercially grown in this country is very small. Everything else is in the dumps, although quality is generally good on all varieties of market flowers. Even lily of the valley finds but small demand.

The doctor's report on the market here is that

the patient remains about the same—pretty low. Circulation sluggish; appetite poor; even the finest delicacies failing to excite eager interest. Very sad state of affairs indeed. This statement is mild compared to the short and sharp bucolic expressions used by the leading market magnates in de-



Sweet Peas

Rather early to talk about Sweet Peas, but we have them and choice stock they are—Pinks, Whites and Reds, the Spencer type.

Per 100, \$1 and \$1.50

GARDENIAS

Special, per dozen, \$4
Extra, per dozen, \$3

VALLEY

Special, \$6 Extra, \$5

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS QM

	CINCINNATI Nov. 6	CHICAGO Nov. 6	BUFFALO Nov. 6	PITTSBURG October 31
Roses				
Am. Beauty, Special.....	30.00 to 35.00	20.00 to 30.00	20.00 to 25.00	25.00 to 30.00
" " Fancy and Extra.....	15.00 to 25.00	15.00 to 20.00	12.00 to 15.00	18.00 to 20.00
" " No. 1 and culls.....	4.00 to 10.00	3.00 to 8.00	4.00 to 10.00	6.00 to 10.00
Russell, Hadley.....	8.00 to 12.00	3.00 to 19.00	8.00 to 10.00	6.00 to 12.00
Killarney, Hillingdon, Ward, Extra	6.00 to 8.00	2.00 to 6.00	6.00 to 8.00	6.00 to 10.00
" " Ord.	3.00 to 5.00	2.00 to 4.00	3.00 to 6.00	..... to 4.00
Arenburg, Radiance, Taft, Key, Ex.	6.00 to 8.00	..... to 8.00	6.00 to 8.00	..... to 8.00
" " Ord.	3.00 to 5.00	..... to 8.00	3.00 to 8.00	..... to 8.00
Ophelia, Mock, Sunburst, Euler, Ex	8.00 to 10.00	5.00 to 8.00	6.00 to 8.00	6.00 to 12.00
" " Ord.	4.00 to 6.00	2.00 to 4.00	3.00 to 6.00	..... to 4.00
Carnations	8.00 to 3.00	1.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Cattleyas	50.00 to 60.00	50.00 to 60.00	50.00 to 60.00	50.00 to 75.00
Dendrobium formosum	..... to 10.00	..... to 10.00	..... to 10.00	..... to 10.00
Lilies	10.00 to 12.00	8.00 to 10.00	8.00 to 12.00	8.00 to 10.00
Lily of the Valley	..... to 7.00	3.00 to 5.00	5.00 to 6.00	..... to 6.00
Snapdragon	4.00 to 6.00	4.00 to 6.00	3.00 to 6.00	4.00 to 6.00
Chrysanthemums	10.00 to 25.00	5.00 to 10.00	5.00 to 20.00	12.00 to 30.00
Violets	.35 to .60	.25 to .50	.50 to .60	.50 to .75
Gardenias	..... to 15.00	15.00 to 20.00	20.00 to 25.00	..... to 1.25
Adiantum	..... to 1.00	..... to 1.00	1.00 to 1.25	1.00 to 1.25
Smilax	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00	..... to 15.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00 to 50.00	20.00 to 35.00	..... to 35.00	35.00 to 50.00

scribing the situation. But having regard for the high literary tastes of the readers of HORTICULTURE the situation is described with moderation and decorum, as befits the refined atmosphere of the Quaker City. Hope to be able to send you a better story next week.

PITTSBURGH "Prices are away down out of sight," significantly said a representative of one of the downtown wholesale houses, when interviewed early in the week. As a matter of fact the market is overstocked with practically all varieties of cut blooms. Exceptionally fine cattleyas are coming in, as are also snapdragons. Roses are fair, both as to quality and quantity, and just about paralleling the calls. Carnations are again more plentiful, while chrysanthemums are none too many. Pompons are fine. There are practically no home grown lilies of the valley, all being utilized coming in from Chicago. Violets are fairly good in quality, but few in numbers.

Very warm weather ST. LOUIS has been with us all week, causing the market to be much overcrowded. On Saturday, by downtown stores had special sales on roses and chrysanthemums. Violet sales are light. The roses coming in are very fine. Some grand chrysanthemums are seen, but the medium-price blooms sell best. There is a fair demand for pompons. Greens are in demand and cleaning out well. Orchids have sold universally well. Before election trade is generally slow, but if everything goes right a revival all around is looked for. Thermometer over 70 at time of writing.

Conditions in the WASHINGTON local market remain slow, as they have been during the month of October, and retailers, wholesalers and growers are glad that election is over and people have returned to their homes here. It is now hoped that business will settle down to that level

(Continued on page 648)

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephones: 2209, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street
Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE { 605 } MADISON SQ., NEW YORK
609

JOHN YOUNG & CO.
WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7363 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.

Tel. { 1503 } Mad Sq. 119 W. 28 St., New York
5803

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3576 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.
Wholesale Commission
READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE { 2281 } FARRAGUT 131 West 28th St., NEW YORK CITY
3089

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 2483 Farragut

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS
GARDENIAS, DAISIES, ROSES, CARNATIONS

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones { 1664 } Madison Square
1665

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending Nov. 4 1916		First Half of Week beginning Nov. 6 1916	
American Beauty, Special	15.00	to 20.00	20.00	to 20.00
" " Fancy and Extra	10.00	to 15.00	10.00	to 15.00
" " No. 1 and culls	2.00	to 8.00	2.00	to 8.00
Russell, Hadley	2.00	to 10.00	2.00	to 10.00
Killarney, Hillingdon, Ward, Extra	2.00	to 5.00	2.00	to 5.00
" " Ordinary	.50	to 2.00	.50	to 2.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 6.00	3.00	to 6.00
" " Ordinary	.50	to 2.00	.50	to 2.00
Ophelia, Mock, Sunburst, Euler, Extra	3.00	to 6.00	3.00	to 6.00
" " Ordinary	.50	to 1.00	.50	to 1.00
Carnations	1.00	to 2.00	1.00	to 2.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for do-
ing our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK
Phones 2036, 2037, 558 Farragut

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 8th Avenue, Between 26th and 27th Sts., New York

Telephones: 797-798-799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality.

114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK**WHOLESALE FLORISTS**

55-57 West 26th Street

Telephones, 13—8510 Madison Square

MAURICE L. GLASS, Treasurer

Consignments Solicited

BOXWOOD SPRAYS

our ability to supply. **Q Pound for pound more good Boxwood Sprays than you ever bought before.**
 Price f. o. b. Pittsburgh, Pa. 50 lb. \$7.50, 100 lb. \$15.00 less 10% on 100 lb. lots providing orders are placed at once.
 On quantity lots let us quote you a delivered price.

PITTSBURGH CUT FLOWER CO., 116-18 Seventh St., Pittsburgh, Pa.

Established 1888

Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists
 110 West 28th St., New York
 We Solicit Consignments of New
 England Grown Novelties.

VIOLET GROWERS

Before making your shipping arrangements for the coming season please correspond with me. **I HANDLE VIOLETS ONLY** and give my entire time and attention to the interests of my violet growers.
 Write Now

CLARENCE SLINN

123 W. 28th Street NEW YORK

Beechwood Heights Nurseries

Importers and Growers of

ORCHIDS

Cut Flowers of All the Leading Varieties
 in their Season.

THOMAS YOUNG, Jr., Proprietor
 BOUND BROOK, N. J.

Flower Market Reports

(Continued from page 617)

expected of it when the social season should be at its height. Chrysanthemums continue to crowd all other stock from the market, and as the warm weather has brought in the late varieties in advance of their usual time there are so many of these flowers that the price has been forced down to little or nothing. Pompons are sold without count. Roses have been as good as could be desired and carnations have shown a marked improvement. There is more lily of the valley than there has been. The few sweet peas that come in meet ready sale. Good snapdragon is offered. There are few lilies, but the scarcity is not felt.

NEW YORK FLORISTS' CLUB.

Monday night, November 13, will be "Ladies' Night" at the Club headquarters in Grand Opera House Building. The House and Ladies' Night Committee assures us that it's not to be like any other Ladies' Night they have ever had. In addition to a choice entertainment to be given by professional talent there will be a happy care-free dance in the spacious ball room below the meeting room. The music will be none less than several pieces from the Grand Opera House Orchestra. The refreshments will be furnished by one of New York's celebrated caterers.

George Hildenbrand, chairman of the House Committee, and Joseph Manda, chairman of the Ladies' Night Committee, are making special arrangements for the entertainment of the ladies.

George T. Schuneman has promised an exhibit of sweet peas. Nomination of officers for 1917 will be made.

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A.M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Nov. 4 1916		First Half of Week beginning Nov. 6 1916	
Cattleyas	20.00	to 35.00	20.00	to 40.00
Dendrobium formosum	.....	to 50.00	.....	to 50.00
Lilies	4.00	to 7.00	3.00	to 7.00
Lily of the Valley	3.00	to 5.00	2.00	to 5.00
Snapdragon	1.00	to 2.00	1.00	to 2.00
Chrysanthemums	4.00	to 25.00	4.00	to 25.00
Violets	.15	to .35	.15	to .40
Gardenias	25.00	to 40.00	25.00	to 40.00
Adiantum	.25	to .50	.25	to .50
Smilax	8.00	to 15.00	8.00	to 15.00
Asparagus Plumosus, & Spren (100 bunches)	10.00	to 25.00	10.00	to 25.00

ORCHIDS - - GARDENIAS

HEADQUARTERS for the entire output of the

BEECHWOOD HEIGHTS NURSERIES, of Bound Brook, N. J.

PAUL MECONI — Wholesale Florist — NEW YORK

Telephone Nos. 3864 and 5364 Madison Square

57 WEST 26th STREET

J. J. COAN, INC.

115 WEST 25TH STREET
 New York

Tel., Farragut 5413-5891

**EVERYTHING IN CUT FLOWERS
 CONSIGNMENTS SOLICITED**

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square
 BOSTON, MASS.

Telephone 2618-2617-2616, Main.

William Stuart Allen Co.

Commission Merchants in

CUT FLOWERS

53 West 28th Street, NEW YORK

Telephone—356 Madison Square.

VIOLETS

B. S. SLINN, Jr., 55-57 W. 26th St.
 NEW YORK

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK
 Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

**Consignments of
 Good Stock Solicited**

111 W. 28th St., - NEW YORK

HERMAN WEISS

Wholesale Florist

Experienced, Progressive and can handle
 shipments of growers' product
 satisfactorily.

106 West 28th St., NEW YORK
 Tel. Farragut 3066.

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street
 167 & 3058 Farragut NEW YORK

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

ASTILBES

Mt. Desert Nurseries, Bar Harbor, Me.
New Hybrids for Forcing.

AUCTION SALES

MacNiff Horticultural Co., New York City.
Azalea Indica and Holland Bulbs at Auction.

For page see List of Advertisers.

Elliot Auction Co., New York City.
Plant Auctioneers.

For page see List of Advertisers.

Johnson & Millang, Inc., New York City.
Bulbs and Boxwood at Auction.

For page see List of Advertisers.

AZALEAS

P. Ouwkerk, Hoboken, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price-list.

JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.

For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS.

Mrs. J. A. Peterson (New), 2 1/4 in. pots, \$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.

"King Ideal" Boiler.

For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Hitebings & Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

August Rolker & Sons, New York City.
For page see List of Advertisers.

BOX TREES—Standards, Pyramids and Bush. Price list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
Lilium Harrisii, Narcissus, Hyacinth and Tulip Bulbs.

For page see List of Advertisers.

American Bulb Co., Chicago, Ill.

French and Dutch Bulbs.

For page see List of Advertisers.

Ralph M. Ward & Co., New York City
French, Japan, Holland and Cold Storage Bulbs.

For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.

For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.

For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

The MacNiff Horticultural Co.,
Holland Grown Bulbs.

New York City.

For page see List of Advertisers.

Henry F. Mitchell Co., Philadelphia, Pa.
Lilium Formosum.

For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.

For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

Thomas Cogger, Melrose, Mass.
Holland Bulbs.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

WESTERBEEK & KLYN,
SASSENHEIM, HOLLAND.

Write for prices on all kinds of bulbs to 14 Stone St., New York.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

A. L. Randall Co., Chicago, Ill.
Thenanthos, the Wonderful New Red Carnation.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Gaitsburg, Ill.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.

Pompon Chrysanthemums.

For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.

For page see List of Advertisers.

CHRYSANTHEMUMS—Continued

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City,
Or Frank Dinda, Farmingdale, N. Y.
Chrysanthemum—Alex Guttman.
For page see List of Advertisers.

CINERARIAS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

ORDERS BOOKED ANYTIME

For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wannmaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

For Plants and Cuttings get our prices before ordering elsewhere. Our guarantee with every order. Write for a copy of our latest Plant Bulletin.

Asparagus	Cyclamen	Primula
Begonias	Daisies	Smilax
Bulbs	Dracaena	Snapdragons
Calceolaria	Ferns	Violets
Calendula	Geraniums	
Cineraria	Hydrangeas	

S. S. PENNOCK-MEEHAN COMPANY,
Philadelphia, 1608-1612 Ludlow St.
Baltimore, Franklin and St. Paul St.
Washington, D. C., 1216 H St., N. W.
New York, 117 W. 28th St.

FERNS

A. M. Davenport, Watertown, Mass.
Small Ferns for Dishes.
For page see List of Advertisers.

R. Vincent, Jr., & Sons Co., White Marsh, Maryland.
Boston Ferns.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

Joseph Heacock Co., Wyncote, Pa.
For page see List of Advertisers.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wisard Brand Cattle Manure.
For page see List of Advertisers.

FLORISTS' PLANT STOCK

Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

For List of Advertisers See Page 627

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums: S. A. Nutt, 2 1/4 in.; also rooted cuttings. First class stock. Write for prices. FRANK LEITH & SON, Haverhill, Mass.

GLADIOLI

John Lewis Childs, Flowerfield, L. I., N. Y.
Primulinus Hybrids.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

Glass 6x8, 8x10, 10x12, 10x14, \$1.65 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.
Pecky Cypress.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

John C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Hitchings & Co., New York City.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit, Mich.

For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

Palisades Nurseries, Inc., Sparkill, N. Y.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co., Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

HOSE

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

H. A. Dreer, Philadelphia, Pa.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

HYDRANGEAS

Anglin & Walsh Co., Williamsbridge, N. Y.
Otaksa and Avalanche.
For page see List of Advertisers.

INSECTICIDES

Hammond's Paint & Slug Shot Works, Beacon, N. Y.
Hammond's Thrip Juice No. 2.
For page see List of Advertisers.

Aphine Manufacturing Co., Madison, N. J.
Aphine.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

B. G. Pratt Co., New York City.
Scalecide.
For page see List of Advertisers.

KENTIA SEED

McHutchison & Co., New York City.
For page see List of Advertisers.

LILY BULBS

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Lilium Harriall Bulbs.
For page see List of Advertisers.

LILY BULBS—Continued

Henry F. Mitchell Co., Philadelphia, Pa.
Lilium Formosum Bulbs.

Ed. Brock & Sons Corp., Boston, Mass.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Lilium Giganteum.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hobmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Hatboro, Pa.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

R. & J. Farquhar & Co., Boston, Mass.
Trees.
For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Beechwood Heights Nurseries, Bound Brook, N. J.
Importers and Growers of Orchids.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Francisco Delgado Q, Bogota, Colombia.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.

PALMS

Joseph Heacock Co., Wyncote, Pa.
For page see List of Advertisers.

PANSIES

H. P. Beers, Greens Farm, Conn.
Giant Pansies, Seeds and Plants.
For page see List of Advertisers.

William Slim, Chitondale, Mass.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PHLOX

150,000 field grown Phlox in 12 leading varieties; all colors; true to name. \$3.50 per 100, \$30.00 per 1000. THE NILES NURSERY CO., Niles, Mich.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

PRIMULAS

William Sim, Cliftondale, Mass.
Sim's Hybrid Yellow Polyanthus.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

Colin Campbell, New York City.
Forcing Rhododendrons.

RIBBONS AND CHIFFONS

S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Crown Roses
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Hardy Roses.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

SASH

Standard Hot Bed Sash with cross bar, 80c. each; lots of 25 and over, 75c. each. Satisfaction guaranteed or money refunded. Glass 6 x 8, 8 x 10, 10 x 12 or 10 x 14, \$1.65 per box of 60 sq. ft. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Boigiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Shamrock Seed.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
Gold Medal Cyclamen Seed.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Seeds, Selected Strains.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
For page see List of Advertisers.

Roman J. Irwin, New York City.
New Crop Florists' Seeds.
For page see List of Advertisers.

S. D. Woodruff & Sons, New York City and Orange, Conn.
Garden Seeds.
For page see List of Advertisers.

Fottler, Fliske, Rawson Co., Boston, Mass.
Seeds for the Florist.
For page see List of Advertisers.

SHAMROCK SEED

Arthur T. Boddington, New York City.
For page see List of Advertisers.

SPIREA

Thomas Cogger, Melrose, Mass.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGUNA & HURRELL, Summit, N. J.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet Peas.
For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VIOLETS

Clarence Slinn, 123 West 28th St., New York City.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE WORKS, 294 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 82 Otis St. and 3 Winthrop Sq.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 568-570 Washing-
For page see List of Advertisers.

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Badlong, 184 North Wabash Ave.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 264-268 Randolph St.
For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 106 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

For List of Advertisers See Page 627

WHOLESALE FLORISTS

New York—Continued

P. J. Smith, 181 West 28th St.
For page see List of Advertisers.

Hents & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Freasly & Schenck, 436 6th Ave., between 26th and 27th Sts.
For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

Paul Meconi, 57 West 28th St.
For page see List of Advertisers.

Woodrow & Marketos, 37 and 39 W. 28th St.
For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 53 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Gutman & Reynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunter Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

George W. Crawbuck Co., 57 West 28th St.
For page see List of Advertisers.

William Stuart Allen Co., 53 West 28th St.
For page see List of Advertisers.

Clarence Slinn, 123 West 28th St.
For page see List of Advertisers.

B. S. Slinn, Jr., 55-57 West 28th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1606-20 Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 21 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers In This Issue

BOUVARDIA.

The Leo Niessen Co., Philadelphia, Pa.
For page see List of Advertisers.

BOXWOOD SPRAYS.

Pittsburgh Cut Flower Co., Pittsburgh, Pa.
For page see List of Advertisers.

LILY AND HOLLAND BULBS.

Ralph M. Ward & Co., New York City.
For page see List of Advertisers.

NEW CARNATION COTTAGE MAID.

Cottage Gardens Co., Inc., Queens, N. Y.
For page see List of Advertisers.

SCALECIDE.

B. G. Pratt Co., New York City.
For page see List of Advertisers.

SPECIAL OFFER JAPAN LILY BULBS.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

SWEET PEAS—GARDENIAS—LILY OF THE VALLEY.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

VENTILATING APPARATUS AND GREENHOUSE FITTINGS.

Advance Co., Richmond, Ind.
For page see List of Advertisers.

PROPOSALS

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., November 7, 1916.—SEALED PROPOSALS will be received in this office until 10 a. m., December 5, 1916, and then opened, for planting trees, shrubs, etc., on the grounds of the Federal Building at Plymouth, Mass., in accordance with drawing T-1, and specification, copies of which may be had on application to the Custodian of the Building, or at this office, in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., November 7, 1916.—SEALED PROPOSALS will be received in this office until 10 a. m., December 5, 1916, and then opened, for planting trees, shrubs, etc., on the grounds of the Federal Building at Ennis, Texas, in accordance with specifications, copies of which as well as copies of approach plan may be had upon application to the Custodian of the Building, or at this office, Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., November 7, 1916.—SEALED PROPOSALS will be received in this office until 10 a. m., December 5, 1916, and then opened, for planting trees, shrubs, etc., on the grounds of the Federal Building at Faribault, Minnesota, in accordance with the specifications, copies of which as well as copies of approach plan may be had upon application to the Custodian of the Building, or at this office, Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., November 7, 1916.—SEALED PROPOSALS will be received in this office until 10 a. m., December 5, 1916, and then opened, for planting trees, shrubs, etc., on the grounds of the Federal Building at Steelton, Pennsylvania, in accordance with specifications, copies of which may be had upon application to the Custodian of the Building, or at this office, Jas. A. Wetmore, Acting Supervising Architect.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 147 Summer St., Boston.

SITUATIONS WANTED

Gardener with first-class references, 30 years old, married, no children. Experience in and outdoors on well-known private places. Address "R. S.," care HORTICULTURE, Boston.

SITUATION WANTED by single man, 17 years' experience on private estates. No trifles answered. "G. D.," care HORTICULTURE, Boston.

Plant Propagation, Greenhouse and Nursery Practice

By M. G. KAINS

We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensive and practical, and it should meet with a ready sale among plantmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagating by buds, layering, cuttings, grafting, etc., fruit tree stocks, clones, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and half-tone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of HORTICULTURE at publisher's price, \$1.50.

Horticulture Publishing Co.

147 SUMMER ST., BOSTON, MASS.

THE NUT-GROWER

The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

In writing to Advertisers kindly mention Horticulture

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago**DREER'S "Riverton Special" Plant Tub**

No.	Diam.	Ea.	Doz.	106
10	20 in.	\$1.60	\$17.60	\$145.00
20	18 in.	1.45	15.50	130.00
30	16 in.	1.10	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.**Visitors' Register**

Boston—Prof. A. H. Nehrling, M. A. C., Amherst, Mass.

Chicago—Mr. Mills, of Dills & Mills, Decatur, Ill.; Mr. Van Aken, of Van Aken Bros., Coldwater, Mich.

Philadelphia—Daniel Carnichael, J. M. McCullough's Sons, Cincinnati, O.; C. B. Knickman, New York City; W. C. Langbridge, Cambridge, N. Y.; Charles Feast, Baltimore, Md.; Mr. Huesman, Reading, Pa.

Washington, D. C.—J. H. Brockman, Phila, Pa.; B. W. Guillemans, Lisse, Holland; H. B. Fiske, Morrisville, Pa.; Mr. and Mrs. C. Albert Small, New York; Mr. and Mrs. John Henry Small, 3d, New York.

New York—F. W. C. Brown, mgr. J. M. Gasser Co., Cleveland, Ohio; J. Onishi, repr. United Flower & Supply Co., San Francisco, Cal.; S. J. Reuter, Westerly, R. I.; E. Allan Peirce, Waltham, Mass.

**GREENHOUSES BUILDING OR CON-
TEMPLATED.**

Richland, Wash.—Home Nurseries, house 25 x 125.

S. Portland, Me.—W. E. Dyer, Hill street, one house.

Jackson, Miss.—J. U. McKay Floral Co., house 24 x 135.

Bar Harbor, Me.—Lyman B. Kendall estate, house 18x70.

Marlboro, Mass.—T. J. Brennan, Stevens St., one house.

Cle Elum, Wash.—John A. Balmer, range of houses, completed.

Pittsburgh—Ernest S. King, repr. Gude Brothers Company, New York City.

**GIPSY MOTH APPARENTLY ELIM-
INATED FROM OHIO, NEW
JERSEY AND NEW
YORK.**

Colonies of gipsy moths, which some years ago in nursery stock or quarry products found their way to Bratenahl, a suburb of Cleveland, Ohio, to Rutherford, N. J., and to North Castle, N. Y., apparently have been exterminated by State officials and the U. S. Bureau of Entomology working in co-operation, according to the annual report of the Chief of the Bureau of Entomology just published. While the trees in the neighborhood of Bratenahl were sprayed again as a precautionary measure, no infestation has been found in this site during the year. Similarly in New Jersey no indication of the presence of the moth has been found.

In New York the entire park system of Rochester has been carefully examined for fear that moths may have gained a foothold from nursery stock shipped in during the last few years, but no infestation was found. In the colony which was located at North Castle a large amount of work has been done, but only 8 egg clusters were found during the year and all of these were outside the area which was sprayed last year. Work is being continued at this point in co-operation with the State of New York, and the entire area and a surrounding strip has been sprayed this year.

NEW CORPORATIONS.

Houston, Tex.—Southern Floral Co., capital stock, \$100,000. Incorporators, A. E. Kutschbach, August Bering, Sr., and Walter Retzer.

Spencer, Ind.—National Show Gardens, growers, capital stock, \$50,000. Incorporators, E. A. Barnes, H. L. Freking and John H. Smith.

**NON-KINK WOVEN HOSE**

In any length (one piece) with couplings, 14c. per foot. Unequaled at the price. Remnants, shorter than 50 feet, 10c. per foot, with couplings.

HOSE VALVE—70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

**METROPOLITAN MATERIAL CO.**

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

**Dreer's Peerless
Glazing Points
For Greenhouses**

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.
Samples free.
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

**FULL
SIZE
No 2****HOTBED SASH at 80c. each**

Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.85 up.

Double Light Sash up to \$4.00.

We carry a large stock of all sizes. Write us for estimate.

S. JACOBS & SONS

1359-1385 Flushing Avenue BROOKLYN, N. Y.

**STANDARD FLOWER
POTS**

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

20th & M Sts., Washington, D. C.

FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street,

CHICAGO, ILL.

CYPRESS GREENHOUSE STOCK

PECKY CYPRESS BENCH STOCK

HOT BED SASH

Ask for Circular D and Prices

THE A. T. STEARNS LUMBER COMPANY
NEPONSET, BOSTON

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

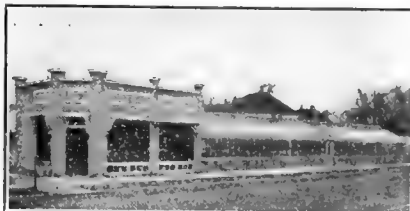
CHICAGO, ILL.

AT YOUR SERVICE

We can ship all kinds of Ventilating Apparatus and Greenhouse Fittings on short notice. Every part we furnish is guaranteed to give satisfaction and prices reasonable. Let us hear from you. We will gladly send one of our catalogues free.

End your troubles by writing to

ADVANCE CO.
Richmond, Ind.



EVERYTHING FOR THE GREENHOUSE
John C. Moninger Company

CHICAGO NEW YORK
922 Blackhawk St. 812 Marbridge Bldg.
CINCINNATI, 2314 Union Central Bldg.

MASTICA



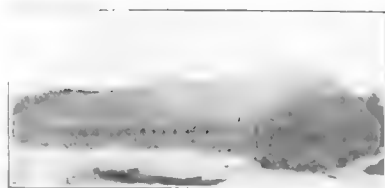
For Greenhouse
Glazing

USE IT NOW

F. O. PIERCE CO.
12W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

The Florists Hall Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address
JOHN G. ESLER, Sec., Saddle River, N. J.



This picture was taken right after a blizzard, and proves conclusively that our style of construction is positively ice-clearing.

This full iron frame, curved eave **JACOBS' GREENHOUSE**, was completely erected, including ventilation and heating system, by our own expert mechanics, for Mr. Chas. Bradley at Convent, New Jersey.

This greenhouse is 25 x 85 ft., and has a partition in the middle, making two distinct and separate compartments, with separate heating systems, so that different temperatures may be maintained in both sections.

**WE KNOW WHAT TO DO
AND WHAT NOT TO DO**

If you contemplate building a greenhouse write us—we can save money for you.

S. JACOBS & SONS

Greenhouse Builders

1359-1385 Flushing Ave.,
BROOKLYN, N. Y.

GLASS

**GREENHOUSE MATERIAL
HOT-BED SASHES**

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

PATENTS

Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

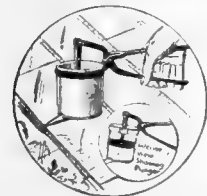
PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

Evans 20th Century Arm

Most up-to-date arm on the market. Proved that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

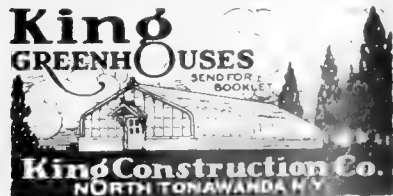


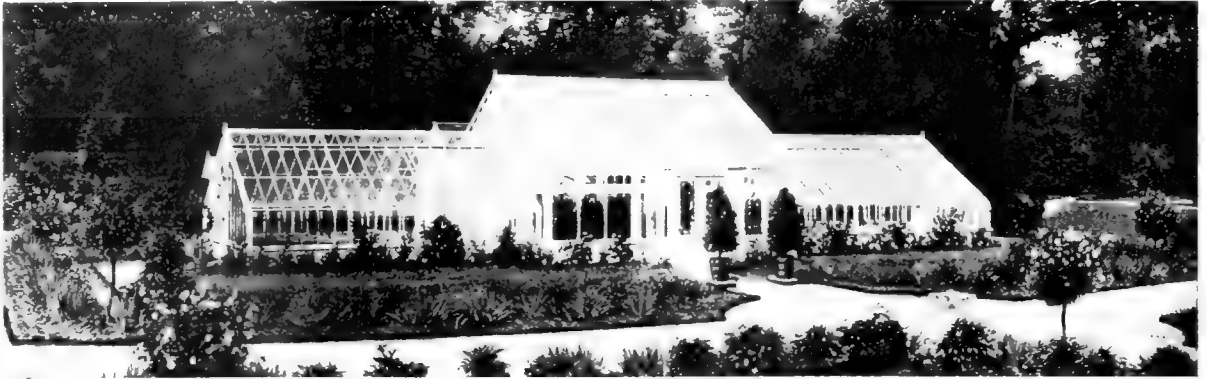
Will last a life-time.

\$1.25 EACH

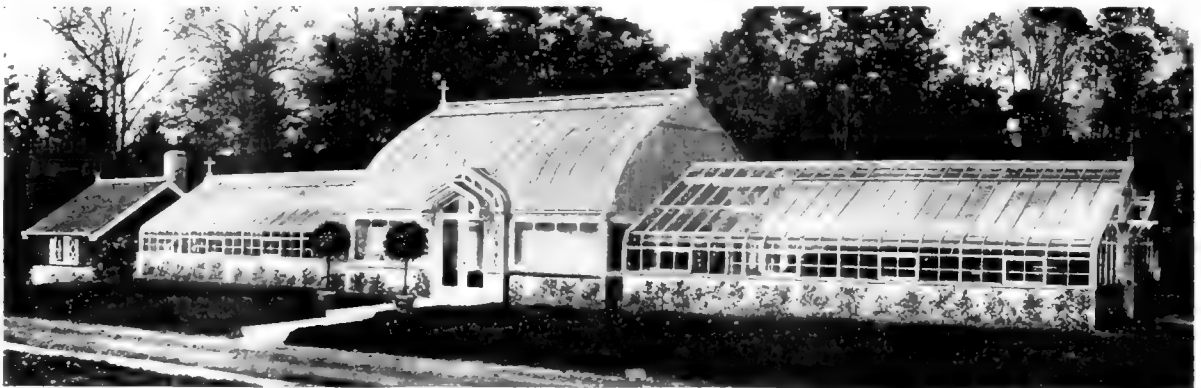
Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

Seal-tight liquid putty at \$1.25 per gallon.
METROPOLITAN MATERIAL CO.
1892-1414 Metropolitan Ave., Brooklyn, N. Y.

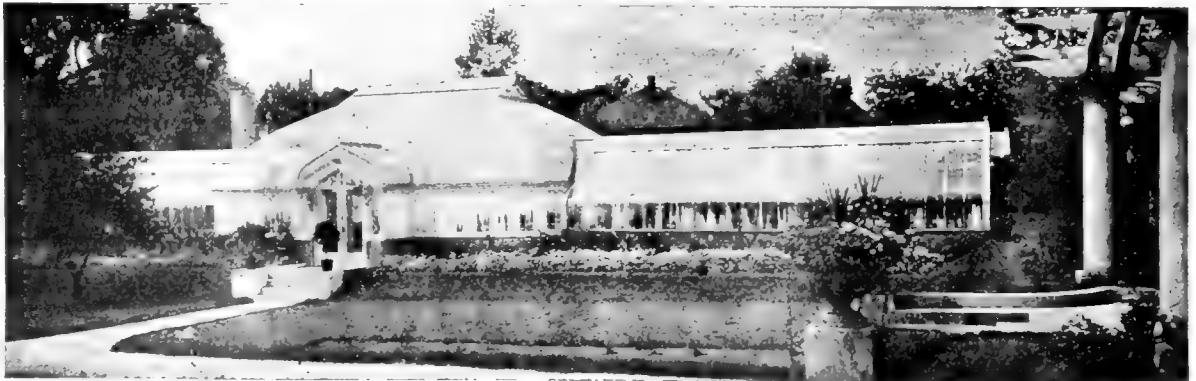




A good example of our Ideal Range with its attractively proportioned Palm House and Wings. The work room is connected to the Palm House by an 11 foot passage house. Erected at Bridgehampton, L. I.



A variation of the Ideal Range with the work room and connecting house at one end. It is located at the Convent of St. Elizabeth, Convent, N. J.



Still another variation of the Ideal Range with modifications to the Palm House roof and the addition of a vestibule; both of which give it an imposing importance in keeping with its surroundings. Erected at Oak Park, Ill.

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

SALES OFFICES:

NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	ROCHESTER	CLEVELAND
42nd Street Bldg.	Tremont Bldg.	Widener Bldg.	Rookery Bldg.	Granite Bldg.	Swetland Bldg.
TORONTO, CANADA, Royal Bank Bldg.			MONTREAL, CANADA, Transportation Bldg.		

FACTORIES: Irvington, N. Y. Des Plaines, Ill. St. Catharines, Canada.

Vol. XXIV
No. 21
NOV. 18
1916

HORTICULTURE



Chrysanthemum Basket at New York Show

Exhibited by Young & Nugent, New York.
Portrait, John B. Nugent

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription \$1.00



NEW CARNATION COTTAGE MAID

A Sport of Mrs. C. W. Ward

A splendid new carnation with the same habit of growth, quality of flower and keeping and shipping qualities as its parent.

It is flesh-pink slightly darker than Enchantress.

Winner of first prize in its class at Cleveland, fall of 1915 and winner of the prize for keeping qualities after being shipped from New York.

Winner of first prize in its class at the St. Louis Carnation Show 1916, and Sweepstakes as the best one hundred vase in the Show. These carnations were shipped from New York in warm weather and were in the box nearly forty-eight hours.

Winner of first prize at the Grand Central Palace Show for two years and other prizes and certificates too numerous to mention.

Price for rooted cuttings

\$12.00 per 100; \$100.00 per 1000

STOCK LIMITED

COTTAGE GARDENS CO., Inc., QUEENS, NEW YORK

CARNATIONS

Field Grown

ENCHANTRESS SUPREME, EUREKA
WHITE WONDER, PINK DELIGHT.

\$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL,
MATCHLESS.

\$7.00 per 100; \$55.00 per 1000.

LADY NORTHCLIFF, PINK WINSOR,
WHITE WINSOR.

\$6.00 per 100; \$50.00 per 1000.

WOOD BROS., FISHKILL, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ELMER D. SMITH & CO.
CHRYSA NTHEMUMS

Ask for Catalogue

ADRIAN, - - - MICH.

CHARLES H. TOTTY
CHRYSA NTHEMUMS
MADISON, N. J.

ROBERT CRAIG CO., ROSES, PALMS.

and Novelties in Decorative Plants
MARKET and 49th STREETS, PHILADELPHIA, PA.

HYDRANGEA OTAKSA & AVALANCHE

Field grown plants, ready for 6-inch pots;
\$14.00 per 100.

ANGLIN & WALSH CO.
Williamsbridge, N. Y.

BOBBINK & ATKINS

Nurserymen, Florists
and Planters

RUTHERFORD, NEW JERSEY

CHRYSA NTHEMUM ALEX. GUTTMAN

The best Early Lavender-Pink in the Market. Blooms have been selling for \$6.00 per dozen since middle of September. Stock Plants, 75c. each, \$7.50 per doz.

GUTTMAN & RAYNOR, INC.

Wholesale Florists

101 West 28th St., New York, or FRANK
DINDA, Farmingdale, N. Y.

In Writing Advertisers
Kindly Mention
HORTICULTURE

LEON RENAULT'S NURSERY

21 Rue du Lievre d'Or, Orleans, France

INTRODUCES

A MARVELOUS NOVELTY

OF

A Herbaceous Chinese Peony

(*Paeonia chinensis*)

The Lord Kitchener

A most beautiful flower, well filled out, of a brilliant cherry-red color with a dazzling hue; a splendid keeper, a vigorous grower, very free flowering and the earliest of all Chinese peonies.

Price f. o. b. Orleans: \$1.25 each; \$11.00 per dozen; \$70.00 per hundred.

SOLE AGENTS:

F. J. GROOTENDORST & SONS

Room 1101

10 Broadway, NEW YORK

Send us a list of your wants in lining out stock and let us give you quotations.

A. N. Pierson, Inc.
CROMWELL, CONN.

Bedding Plants and Roses

GERANIUMS

We have the largest stock, in better condition than we have ever had, and are prepared to take care of your orders in line shape. Alph. Ricard, Beaute Politoine, Jean Vland, Edmond Blanc and Scarlet Brier, 2-in. at \$2.00 per 100, \$20.00 per 1000; 3-in. at \$3.00 per 100, \$30.00 per 1000. S. A. Nutt, Gen. Grant, Mad. Buchner, Mad. Recamer, Jean Oberlee, Abbie Schaffer and E. G. Trego, etc., 2-in. at \$2.00 per 100, \$18.50 per 1000; 3-in. at \$3.00 per 100, \$25.00 per 1000.

CROTONS. Good 4-in stock \$3.50 per doz., \$25.00 per 100.

BOSTON FERNS, 7-in., \$6.00 per doz.; 8-in., \$1.00 each, \$9.00 per doz. Large plants in 12 in. pots, from \$2.00 to \$5.00 each.

	2-in. 100	2-in. 1000	3-in. 100	3-in. 1000		2-in. 100	2-in. 1000	3-in. 100	3-in. 1000
ACALYPHA					LEMON VERBENAS	\$2.00	\$18.50	\$3.00	\$25.00
ALTERNANTHERAS	2.00	18.50	3.00	25.00	LANTANAS, 10 varieties	2.00	18.50	3.00	25.00
AGERATUM	2.00	18.50	3.00	25.00	MOONVINES, White and Blue	2.00	18.50	3.00	25.00
ASPARAGUS SPRENGERI			5.00		PARLOR IVY, S. Scandens	2.00	18.50	3.00	25.00
BEGONIAS, Vernon	2.00	18.50	3.00	25.00	PETUNIAS, Double and Single				
COLEUS	2.00	18.50	3.00	25.00	Mixed	2.00	18.50	3.00	25.00
CUPHEA	2.00	18.50	3.00	25.00	POMPOON CHRYSANTHEMUMS				
HARDY ENGLISH IVY	2.00	18.50	3.00	25.00	SALVIA, Bonfire and Zurich	2.00	18.50	3.00	25.00
HELIOTROPE	2.00	18.50	3.00	25.00	SWAINSONA, White	2.00	18.50	3.00	25.00

CASH WITH ORDERS.

R. VINCENT, Jr., & SONS CO.,

WHITE MARSH,
MD.

LILY OF THE VALLEY PIPS

Danish and German Stock
Booking Orders now for
1916 Crop

LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

CHAS. SCHWAKE & CO., Inc.

Valley

GERMAN, SWEDISH
AND DUTCH PIPS

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....657	Coan, J. J.....681	Gasser Co., J. M.....675	Knoble Bros.....675	Pennock-Meehan	Page
Albany Cut	Cooke, Geo. H.....674	Grootendorst, F.	Kramer, E. H.....675	Co.....679	Shinn, B. S., Jr.....681
Flower Ex.....680	Cottage Gardens	J. & Sons.....658	Kreischell Bros.....686	Penn the Florist.....674	Shinn, Clarence.....681
Allen, J. K.....681	Co.....658	Gude Bros. Co.....674	Kuebler, W. H.....689	Pierce Co., F. O.....687	Smith, Elmer D.
Allen, Wm. Stu-	Cowee, W. J.....678	Gutthman & Ray-	Lager & Hurrell.....690	Pierson, A. N.....658	A Co.....678
art.....681	Craig, Robt. Co.....658	nor.....658 690	Lange, H. F. A.....675	Pierston, F. R.....674	Smith, P. J.....680
American Bulb	Crawbuck, Geo	Hail Association.....680	Leonard Seed Co.....675	Pittsburgh Cut	Smith & Peters.....675
Co.....673	W. Co.....681	Hatchison, A	Loechner & Co.....659	Flower Co.....681	Smith, W. A. T.
Anderson, S. A.....675	Davis.....674	Co.....679	McHutchison, A	Poehlmann Bros.	Nursery Co.....689
Anglin & Walsh.....678	Davenport, A. M.....669	McMann, Jas.....686	Co.....679	Co.....678	Smith, Wm. J.....675
Aphine Mfg. Co.....670	Delgado, Q. Fran-	McConnell, Alex.....674	McNiff Horticul-	Randall's Flower	Stump, G. E. M.....674
Badgley & Bishop,	cisco.....660	Henderson, A. &	tural Co.....679	Shop.....675	Thorburn, J. M.
Inc.....680	Dinda, Frank.....658	Co.....673	Marshall, W. E.....673	Reed & Keller.....678	Co.....675
Barrows & Son.....660	Dorne, J. A	Hentz & Nash.....680	Meoni, Paul.....681	Reed & Meyer.....680	Teddy, Chas. H.....678
Bayersdorfer, H.	Sons Co.....658	Hess & Swoboda.....675	Metropolitan M	Reid, Edw.....678	Tracy & Ly
Co.....677	Dreer, H. A.....687	Hews, A. H. &	erial Co.....687	Reiters.....675	A Schenck.....680
Bay State Nur-	Dynall, Robert.....674	Hill, E. G. Co.....678	Michell, H. F.	Robinson, H. M.	United Cut Flower
series.....669	Eastern Land	Hill, D. Nursery	Co.....672	& Co.....681	Co.....681
Beachwood Hgths	Co.....670	Co.....693	Michigan Cut	Robinson, H. M.	Valentine, J. A.....674
Nurseries.....681	Edwards Folding	Hitchings & Co.....688	Flower Ex.....678	Co.....680	Vincent, R. Jr.
Beers, H. P.....660	Box Co.....678	Holland Nucle-	Millang, Chas.....680	Roehrs, J. Co.....660	& Sons Co.....689
Boblink & At-	Ernest, W. H.....686	ies.....689	Murray, Samuel.....674	Roelund Thomas.....675	Wants, For Sale.....685
kins.....678	Ernst, J. Co.....686	Holm & Olson.....675	National Nur-	Roelund, A. A	Ward, R. M. &
Boddington, A. T.....672	Evans, J. A.....687	Irwin, R. J.....673	servant.....690	S. S. S.....660	Co.....660
Bolgiano & Son.....673	Lyons.....675	Jacobus, S. A	Nixton, M. J.	Roscoe, Thos.....674	Waters, F. C.....677
Breck, J. & Sons.....673	Lyons.....675	Johanson & M	Co.....670	Schaefer, Max.....674	Weiss, Herman.....684
Breitmeier's, J.	Lyons.....675	Lang.....671	Nut Grower.....685	Schwabe, Chas	Wells.....678
Sons.....674	Lyons.....675	Kastner, W. F.	Onwek, P. C.	Co.....659	Welch Bros. Co.....678
Budlong, J. A.....674	Foley Mfg. Co.....687	Co.....678	Palmer, W. J. &	Sharp, Partridge	Wood Bros.....688
Bunyard, A. T.....678	Ford, W. F.....689	Keller, J. E. Sons.....673	Se.....674	Co.....687	Woodrow & Mar-
Burnett Bros.....673	Ford, M.....689	Kelly & Son.....675	Sheldersky, S. S.	Sheridan, W. F.....680	Woods.....678
Burpee, W. A. &	Froment, H. E.....680	Kerr, the Florist.....675	Co.....673	S. S. S.....680	Woodruff, S. D.
Co.....673	G. Vin.....674	King, Construc-	Park Floral Co.....674	St.....680	A. S.....677
Carter's Tested	G. Vin.....674	tion Co.....689	Parish's Florists	St.....680	Young, John &
Seeds, Inc.....672	G. Vin.....674			St.....680	Co.....680
Childs, John	G. Vin.....674			St.....680	Young, John &
Lewis.....669	G. Vin.....674			St.....680	Co.....680
Clarke's D., Sons.....674	G. Vin.....674			St.....680	Co.....680

FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 682, 683, 684, 685



Sim's Hybrid Yellow Polyanthus

(Giant English Primrose)

GOLD MEDAL AWARDED AT PHILADELPHIA

This is the best selling novelty in years. They make charming pot plants for Easter and are indispensable for cutting. They bloom from December to May. Now is the time to pot up for spring trade or plant in benches for cut flowers.

Plants suitable for 5 and 6-in. pots.

PRICES

100, \$10; 500, \$40; 1000, \$75: for planting out for cut flowers
100, \$12; 1000, \$100: 500 at the 1000 rate

SIM'S GOLD MEDAL PANSY plants for wintering flowering,
100, \$4; 1000, \$30

WILLIAM SIM, CLIFTONDALE, MASS.

KENTIA SEEDS

NEW CROP—JUST ARRIVED

KENTIA BELMOREANA

KENTIA FORSTERIANA

COCOS WEDDELIANA

Write for Import Prices, stating quantity required

McHUTCHISON & CO., THE IMPORT HOUSE 95 Chambers St., New York

JULIUS ROEHRS CO.

HEADQUARTERS FOR

**Choice Flowering and Foliage
Plant Stock**

FOR IMMEDIATE DELIVERY

We have twelve houses filled with the lovely Mrs. Peterson Begonia, the gem of all Begonias. All sizes from \$6.00 per dozen up to \$4.00 each.

Send for Catalog of Christmas Stock

RUTHERFORD, - - NEW JERSEY

Hardy Roses

New York State, two-year field-grown. Can furnish so long as unsold. **THIS FALL or NEXT SPRING** Delivery, in own-rooted stock: **GRUSS** an **TEPLITZ** hybrid tea, **HERMOSA** and **CLIMBING WHITE DOROTHY**, all at \$12.50 the 100; **EXCELSA**, the improved **Crimson Rambler**, at \$10 the 100 f. o. b. New York.

JAPAN BAMBOO CANES, green dyed, 3 ft. length, per bale of 2500, \$12.50; natural, 6 ft. length, per bale of 1000, \$7.50.

AUGUST RÖLKER & SONS, 51 BARCLAY STREET, New York
or P. O. BOX 752

CINERARIA HYBRIDA GRANDIFLORA, 3 in. ready for 4½ in. \$5.00 per 100

CINERARIA STELLATA, Strong 3 in. ready for 4½ in. Mixed Colors, \$5.00 per 100

SMALL FERNS FOR DISHES

Plenty of **Holly** and **Aspidium** 2¼ in., \$4.00 per 100; \$35.00 per 1000. **Adiantum** **rhodophyllum** and **cuneatum**, 3½ in., very strong plants, \$8.00 per 100.

A. M. DAVENPORT, Watertown, Mass.

OLDEST AUCTION HOUSE

IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co

42 Vesey St., New York

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.
WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.
ROOSEVELTS—\$5 per 100, \$40 per 1000.
BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

LILY BULBS

RALPH M. WARD & CO.
71 MURRAY ST., NEW YORK

ORCHIDS

Francisco Delgado Q.

Orchid Collector

Solicits orders for shipments of Orchids,
Prices quoted upon application.

BOGOTA (Chapinero) COLOMBIA

ORCHIDS

We grow and sell nothing but **ORCHIDS**. If you are in the market for this class of plants we respectfully solicit your inquiries and orders. Special lists on application.

LAGER & HURRELL, Summit, J. N.

500,000 Giant Pansies

Grown from the Famous Jennings strain of seed. By express, 500, \$2.00; 1000, \$3.50. Large plants in bud and bloom, \$10.00 1000.

CASH WITH ORDER.

H. P. BEERS, GREEN'S FARM
CONN.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—*Pope*.

Care of Fuchsias

Shorten the tops back to firm ripe wood and place them where they will be near the glass. This will induce them to make strong cuttings for propagation. Plants which have had a good rest can now be placed in a temperature of from 55 to 60 at night, with 10 to 15 degrees on sunny days. When they have made a growth of two to three inches you can take off a batch and insert them in a propagating bed with a bottom heat of about 65 degrees and 10 degrees less top heat. Keep them moist and shaded and they will root in two or three weeks. Syringe on all fine days and keep the atmosphere moderately moist. When potting use either 2½ or 3-inch pots, giving turfy loam three parts, well-rotten manure one part, and leaf mold one part. Keep shaded for a little while until they begin to take hold of the sod when they should be given all the sun and light possible, well up to the glass.

Daffodils for Early Forcing

Give these about 55 degrees at night and in three or four weeks they should have 65 degrees. To induce length of stem they should be kept in complete darkness for two or three weeks, but after that they should have the shading removed a little at a time, until they are exposed to full light. If there is a batch in flats well rooted it is not too early to bring them in, so as to flower during January. The grower who has a cellar that is just clear of frost can utilize it to good advantage for all such bulbs. Where you have some room below benches in a cool house you should bring in a good number of flats and place them here. It will save a lot of disagreeable work later on when weather is very cold. See that they do not have too much heat from the pipes. Look them over each day so none become dry at the roots.

Forcing of Ixias

Don't ever think of hurrying these bulbs along with a high temperature, as they will then prove a failure. The forcing of these bulbs for either decorations or for cut flowers can be made a paying venture. Use either 5 or 6-inch pots or pans for six or eight bulbs. Provide efficient drainage and use a compost of fibrous loam three parts, old manure one part, and leaf mold and sand one part. It is always a good plan to have the compost moderately moist when planting the bulbs, then no water will be required until they commence to grow. Press the compost firmly about the bulbs and plunge in coal ashes in a frame, where they can have protection from hard freezing. When they show good signs of advancement they should have from 50 to 55 at night with an increase of ten degrees more with sun heat.

Japan Lilies

The bulbs can be left in the frames until about the middle of December by which time they should have made plenty of roots, with a little top growth. They can then be brought into a house at about 45 degrees at night and kept there during December. Those intended for Easter and that are out in a cold frame should be protected from the severe weather and also from any long-continued rain. There is time yet to pot up lilies of the *Harrisii* type for Easter. Give them 6-inch or 7-inch pots at once. It is a good plan to place the bulbs low in the pot as there are numerous roots that start from the base of the flower stems which can later be given a liberal top dressing of good soil. The Japan lilies are always in good demand for Memorial Day. To have them in flower for that day they should be in a cold frame well protected until the middle of January. They can then be removed to a very cool house and carried through with little artificial heat. In order to have a supply on that date it requires more retarding than forcing.

Propagating Crotons

Nice young plants may be had by making incisions in good, shapely shoots. Keep open with toothpicks, bind with sphagnum and keep constantly moist and roots will be emitted in a month or less, when the tops can be cut off and carefully potted. With a little shade and careful handling large and well finished plants in small pots may be had in this way. From November to February, when firing is the heaviest and the propagating sand is most likely to be steadily warm is perhaps the best time for rooting crotons. Half ripened wood is the best to use. Water freely. Usually a good damping will be needed daily, in addition to occasional light sprayings. Protect from all sunshine. The best condition for successful rooting is when we can maintain a bottom heat of 80 to 85 degrees, with top heat 10 degrees lower, but they will root in a top heat even 20 degrees lower. When rooted pot in a mixture of soil, leaf mold and sand in equal parts.

Reminders

Record the names of all good chrysanthemums that you would like to try next year.

Moderate feeding with liquid manure will be of great assistance to cyclamen now throwing up their flowers.

Move lilies on to a bench as soon as they are nicely above ground. Be careful as to watering until they have filled their pots with roots.

Sow *Chrysanthemum* or *Chrysanthemum* in the cold beds where there is a chance for them to flower, or give a separate piece of bench to them in a cool house.

HORTICULTURE

VOL. XXIV

NOVEMBER 18, 1916

NO. 21

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 147 Summer Street, Boston, Mass.

Telephone, Beach 292.

WM. J. STEWART, Editor and Manager

SUBSCRIPTION RATES:

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Chrysanthemum Basket at New York Show.	
NOTES ON CULTURE OF FLORISTS' STOCK—Care of Fuchsias—Daffodils for Early Forcing—Forcing of Ixias—Japan Lilies—Propagating Crotons—Reminders—John J. M. Farrell.....	661
ROSE GROWING UNDER GLASS—Mice and Rats—Clean the Boiler Flues—Last Chance for Repairs—The Christmas Crop Arthur C. Rusicka.....	663
THE EXHIBITIONS—Chicago Florists' Art and Flower Show—Tuxedo (N. Y.) Horticultural Society Show—Lancaster County Flower Show—Hartford (Conn.) Exhibition—Cleveland Flower Show, Illustrated.....	664-665
Massachusetts Agricultural College.....	637
NEW YORK EXHIBITIONS—American Institute Chrysanthemum Show—Horticultural Society of New York.....	666
CLUBS AND SOCIETIES—American Sweet Pea Society—Meetings Next Week—Nassau County Horticultural Society—New York Florists' Club—National Association of Gardeners.....	667
Pittsburgh Florists' and Gardeners' Club—Lenox Horticultural Society—American Rose Society—Westchester and Fairfield Horticultural Society—Club and Society Notes.....	668
DURING RECESS—Boston Florists' Bowling League..	668
OBITUARY—Katherine Elizabeth Freeman—Trueman Lanham—George Bird—Fred W. Vick, portrait.....	670
VEGETABLE GROWERS' ASSOCIATION OF AMERICA.....	671
SEED TRADE—One Week's Imports.....	672
OF INTEREST TO RETAIL FLORISTS:	
New Flower Stores.....	674
Flowers by Telegraph.....	675
NEWS ITEMS FROM EVERYWHERE:	
Chicago, Washington, St. Louis, New York, Boston, Philadelphia, Pittsburgh.....	676-677
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago, Cincinnati, New York, Philadelphia, Pittsburgh, St. Louis.....	679
Washington.....	681
MISCELLANEOUS:	
Unhealthy <i>Primula obconica</i> —J. J. M. Farrell.....	669
Patent Granted.....	672
News Notes.....	674
Visitors' Register.....	677
Pot Famine Here—P. M. Read.....	686
Personal—New Corporations.....	686
Greenhouses Building or Contemplated.....	686

Sweet pea society prospers

The financial statement of the American Sweet Pea Society which appears in this issue will greatly please the many friends of the dainty flower in the interest of which this organization is maintained. To have a fair balance in the treasury and all bills paid in full after nine years' uphill work in these times of society multiplying is very encouraging, and insofar as this condition is due to the keen inspiration of the Maine atmosphere, last summer the Bar Harbor

meeting was certainly a wise move. No doubt the meeting of 1917, should it take place in Boston as planned, will add still further to the strength and stability of the society and to the popular interest in the flower for which it stands.

A good example

We learn from our news clippings that on Thursday afternoon of this week the florists of Fort Worth, Texas, have agreed to close their places of business so that all may be able to attend the meeting of the State Florists' Association and visit the flower show on that date. There was a time, years ago, when similar recognition was occasionally accorded to such events, as well as annual picnics and the like, in some of the older floral centres, but the custom appears to have entirely died out. In fact it often happens that the employees in flower stores in towns where flower shows are on, are very often unable to give information to a stranger as to date or locality even of the exhibition and seem mildly surprised that they should be expected to know. We think the course of the Texas florists is a most excellent one and not only well calculated to promote pleasant fraternal relationships but to develop greater respect for the florists' calling, both from outside and from within.

What modern business demands

The cut flower wholesalers of New York City who, by united action have within a few years effected a salutary advancement in the matter of credit giving and account collecting, have now, as mentioned in our local notes, put in force another much-needed reform which requires that boxes in which flowers are taken from the wholesaler must be paid for or else returned when emptied. As in the case of the aforementioned innovation, the retail trade will probably give general approval to this edict which seems to be another step in the direction of a code of trade ethics for a business which, considering its size and importance, has been far behind the times in that respect. Other flower trade centres have talked in an idealistic sort of way about the need of these reforms and others that are sure to come eventually, but so far they seem to lack the cohesion or the courage to put their wishes into effect. New York has started a wholesome and incisively defined example for the trade elsewhere and those who refuse to adopt regulations of like character will find in the long run that they have made a serious mistake.

A question of money and methods

Printers' Ink, for November 2, in an editorial note under the caption of "War Cries Without War Chests," arraigns the Florists' Telegraph Delivery Association for attempting to inaugurate a national campaign to influence the public, with an inadequate amount of money and an antiquated and discredited method. It particularly warns the Association against the "press agent" method of publicity which it says "died a natural death shortly after the demise of its parent—Mr. Something-for-Nothing." It agrees that there is a glowing opportunity to increase the per capita consumption of flowers by showing the people when and how they can use more flowers, but "it will require all the skill and experience of a trained advertising organization to do it." According to *Printers' Ink*, if the florists of this country are really serious about increasing the use of flowers they should set out seriously to raise a "war fund," which it asserts would need to be several times the proposed amount of \$10,000, and anything less would be like trying to "dig the Panama Canal with a toy spade." Many of our readers will probably agree with

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers will come with any of the topics presented on this page, and will be received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the Editor of HORTICULTURE.

Mice and Rats

These pests will now be moving from the fields and woods into buildings, and as a rule they are especially fond of a greenhouse, making themselves perfectly at home around the boiler rooms, chewing up paper in the packing room, to say nothing of the damage they do when they take a notion to make their nests in the greenhouse benches, picking out the place where the choicest roses are growing, and undermining several plants over night. Cats are worse than useless as they are a great nuisance themselves unless they are the right kind, and this is seldom the case. It will, therefore, be necessary to be ready for the invasion with traps. There is nothing better than the ordinary flat trap made of a piece of wood and a strong wire spring. It comes in two sizes, one for mice and one for rats. The mice can usually be caught without any trouble, but the rats are real foxy. The best way is to set the new trap with a pair of new canvas gloves on, baiting the trap with bacon, and when it is set wrap the gloves around the bacon and put away for future use. After a rat is caught, scald the trap with hot water or else use a new one, and set again, using the gloves again, which by this time will be saturated with the smell of bacon, so that the rats will not smell the touch of human hands. Before the traps are set it will be necessary to drill a small hole in one corner and run a wire through, fastening this to a piece of pipe or something heavy so that the rat when caught will not be able to get away with the trap. If the traps are kept set continually there should be no trouble to keep the place free from both mice and rats. It certainly is no credit to a place to have it overrun with the pests, and as mentioned before it often costs quite a little, even more so with the gardener who has expensive bulbs, seeds, etc., to look after. Rats are very fond of carrying things away to eat later, and it is not always the men stealing when bulbs, etc., are missing. A rat will carry off a great many bulbs in one night. Have the traps set, and catch the pests as they come in, before they get acquainted with the place, as it is easier to do it then than it will be later.

Clean the Boiler Flues

With a spell of cooler weather it has been necessary to fire a little more than ever before this season, and as coal is way up in the air it will not be a bad idea to save as much of it as possible. To begin, all boiler flues should be cleaned at least once a week, and if possible it will pay to do it every other day. The way the modern boilers are built it is very little trouble to run a brush through the flues or to blow them out with steam. Whichever method is used, see that it is done often

enough to keep the boilers clean so that there will be no wasted heat. Even a thin coat of ashes or soot will prevent the iron or steel from absorbing heat, and that is what it is supposed to do, transferring it to the water, making either steam or hot water as the case may be.

Last Chance for Repairs

Winter will soon be here with its cold winds, snows and blizzards; it is, therefore, advisable to repair everything that will have to be repaired before the bad winter weather sets in. All broken glass should be repaired the very first thing, as not only is a lot of heat wasted by letting the wind blow in, but the plants are bound to suffer some time because of a draft or drip. All pipes should be gone over to see that they are in condition to stand the winter. With these it is much as with benches. It does not pay to patch. If the returns are leaky, repair all that is absolutely necessary, and then as soon as opportunity will come, repipe certain benches or houses, using all new pipes. The system will then last for many years without any worry. If a new piece is put in here and there now, later on there will be another piece to put in here and there and this will keep up indefinitely, greatly adding to the expense of running the place. If there are any places where the pipes touch the ground, see that the soil is scraped away so as to leave the pipes free and clear. When the pipes come through the soil anywhere, the soil will absorb the heat much the way it absorbs electric current when the wires are grounded. See that the main trenches are well drained so that the mains will not be in water getting chilled while the fireman is straining to make steam. Cover the mains wherever it is possible. It will pay, as the saving in heat will be considerable. Houses with wooden sides which are pretty well gone had better get a coat of tar paper. This will not cost so very much and the coal saved will soon bring the money right back.

The Christmas Crop

With Christmas only five weeks away all roses that will be in for Christmas will now be seen on the plants in the form of nice red shoots. Every possible precaution should be taken to see that these come right along and that they come clean and healthy. If the plants carry quite a number of these shoots a little extra feeding will help push them along and lengthen the stems out a bit more. Bone can be used for this purpose to good advantage, for it is a good plant food and if the weather should turn out very bad and dark, the plants will not suffer from overfeeding as much as they would if some of the quick-acting fertilizers were used. Keep the plants well fumigated and syringed so there will be no blemish or insects on the buds to decrease their price.

Printers' Ink. To a certain extent HORTICULTURE agrees with it. But when it comes to handing over \$50,000 or \$75,000 to a "trained advertising organization" to increase the sale of flowers we rather think the florists will

be inclined to spend a little time in discreet meditation and silent prayer. In this connection, the account of Chicago's retail exhibition experiment, in another column of this issue, is suggestive and is well worth reading.

THE EXHIBITIONS

CHICAGO FLORISTS' ART AND FLOWER SHOW.

Something new in flower shows has been tried and successfully carried out. It was distinctively a retailers' show and the public plainly indicated its approval. The attendance was pretty evenly divided between the afternoon and evening, a steady stream of people passing in and out from two till eleven, and at no time was the number so large that the exhibits were injured. The 19th floor of the Hotel La Salle was a beautiful place for the affair, the flowers looking so much more attractive than with the usual barn-like setting of the coliseum. Variation was given by the use of platforms and tables upon which smaller vases and baskets were placed. Groups of green plants enhanced the beauty of the cut flowers, and blooming plants in groups and in hampers added much to the good effect. All kinds of corsages, arm bouquets, bridal bouquets, etc., were exhibited by Chicago retailers and the wholesale commission house of M. C. Gunterberg had carried out an original idea with success, the different wedding anniversaries being suitably designated by flowers, combined sometimes with little gifts, and this table was always the center of an interesting group.

The baby table led in the display of flowers arranged for special remembrances. The stork looked down upon cradles of many kinds, each filled with choicest miniature roses and the work was dainty in the extreme. Dinner tables were made beautiful with flowers and one long table showed something new for a wedding. Down the center of the table was a broad runner of pink ribbon, crossed by eight white arches, each trimmed with the smallest roses, while under the arches was a tiny bridal party, complete even to the flower girl and all carrying natural flowers. The needs of debutantes were well cared for, with every conceivable kind of basket, and the height of the florists' art was shown in the arrangement of these. The usual tall vases filled with the largest chrysanthemums made imposing displays.

The retail trade turned out well to view the exhibit but only a small proportion took part in it, the south-side florists being entirely without representation. Among the downtown florists exhibiting were Geo. Wienhoeber, who far exceeded any other retailer in the number of displays staged, A. Lange, J. Mangel, L. Bohannon and Miss Leslie whose store is the latest addition to the Loop florists. From north side were Ernst Wienhoeber, W. W. Adams and Schiller. Miss Edna Frauenfelder ably upheld the honor of the west side. A big vase of the new red carnation, *Thenanthos*, originated by Anton Then and disseminated by the A. L. Randall Co. showed up well and called forth much admiration for its size,

color and stem. The Deerfield Nursery, Deerfield, Ill., showed a new red rose and the Thompson Carnation Co., a collection of seedling carnations. An exhibit of seedling chrysanthemums was made by the Growers' Cut Flower Co. of Redwood, Cal. A. Schneider of Oak Park, Frank Oechslin and Vaughan's Greenhouses furnished the plants.

TUXEDO (N. Y.) HORTICULTURAL SOCIETY SHOW.

The annual flower show held in the ball room of Tuxedo Club House was one of the finest displays of flowers ever shown at Tuxedo. The entries far exceeded those of any previous show. The groups were again a feature and chrysanthemums were very good. Singles were shown to advantage and are no doubt slowly taking the first place in chrysanthemums both for their usefulness in decoration and their beauty on the exhibition table. Roses were the best ever shown here with a big increase of entries. Carnations were of excellent quality and fine color. The classes for vegetables in the past years have been falling off but this year they came up to the front again with some fine collections. The great feature was the table decoration of chrysanthemums which brought out thirteen entries. 1st prize was won by Mrs. S. Spencer, gard. Emil Barth. H. M. Tilford, gard. Joseph Tansey, carried off 1st in both the miscellaneous and chrysanthemum groups. He was also the winner of the Knight & Struck Co. cup for single chrysanthemums. Mrs. John Murray Mitchell, gard. Thos. Wilson, won the J. Scheepers & Co. cup for six cold storage spires and the Metropolitan Material Co. cup for singles and anemones. Mrs. A. Carhart, gard. C. Costicki, won the Hitchings & Co. cup for the best flowering plant. G. G. Mason, gard. D. McGregor, won the Vaughan bronze medal for the largest flower in the show. A. Monell, gard. C. Davidson, was 1st with the fern group. R. Mortimer, gard. C. D. Schaeffer, staged a very nice collection of seedling anemones which was awarded a certificate of culture. The judges were R. Speirs, Dalton, Mass.; John Canning, Ardsley, N. Y.; Jas. Robertson, Newport, R. I., and Thos. Page, Great Barrington, Mass., whose judgment met with the entire satisfaction of all the exhibitors. A few of the out-of-town visitors were F. Seeley and J. Muller, of Julius Roehrs Co., J. Morrison of Weeber & Don, Geo. Strong, C. H. Totty, R. J. Beers of A. N. Pierson, Inc., W. Scott, W. H. Lutton, C. Peterson, J. E. Lager, Jos. Manda, Thos. Knight and W. Sperling.

The principal prize winners for chrysanthemums were Jos. Tansey, D. McGregor, W. Hastings, C. Davidson, Thos. Wilson, T. Lyons and Mrs. Mac Machan.

The principal prize winners in roses

were: Wm. Brock, J. Tansey, D. McGregor, Thos. Wilson, C. Davidson and C. Costicki.

In carnations: J. Tansey, W. Brock, D. McGregor, W. Hastings, Thos. Wilson, C. Davidson, Thos. Lyons, C. Costicki. Vegetable winners were D. S. Miller, Emil Barth and D. McGregor.

In the orchid classes Geo. F. Baker and H. H. Roger, gard. P. Venezic, were the principal winners. The commercial exhibits were from Lager & Hurrell, table of orchids, C. H. Totty, collection of single and pompon chrysanthemums and roses, A. N. Pierson, Inc., single chrysanthemums and a new yellow rose, Scott Bros., collection of single and anemone chrysanthemums.

THOMAS WILSON, Sec.

LANCASTER COUNTY FLOWER SHOW.

A special effort was made to have a good amateur display and the result was very encouraging. A half dozen vases of exceptionally fine dahlias demonstrated the abnormal weather conditions existing in this section. Two years ago high class chrysanthemums were hard to find here. The display then made by our out-of-town friends educated us up to the possibilities and for this show the display by local growers was the equal of those exhibited anywhere. The Lord & Burnham prize for the best display of chrysanthemum blooms was won by H. D. Rohrer. His display was some 200 vases of specimen blooms, filling four tables and three vases of extra long-stemmed blooms towering over them in the center of the table group. These three vases were M. Louiseau-Rousseau, Nerissa and Wm. Turner.

Best display of cut flowers other than chrysanthemums was made by Chas. M. Weaver with a table of sweet peas and mignonette that equaled the stock shown last spring at the National Show. The prize was awarded by the King Construction Co.

The Michell bronze medal was awarded to Elmer Weaver for the best display of plants and cut flowers. The Michell silver medal for table decoration was awarded to B. F. Barr Co.

Blue ribbons were awarded as follows: Rudolph Nagel for display of chrysanthemums artistically staged; Maurice J. Brinton for table of lilies; Amos N. Rohrer for carnations; E. F. Campbell for vase of chrysanthemums.

Honorable mention was made of the following: Ira D. Landis, table of carnations, daisies and pompons; W. B. Girvin, table of chrysanthemums and carnations; Lemon Landis, for chrysanthemums and lilies; Frank Kohr, cut flowers, plants and straw flowers; H. A. Schroyer, for an excellent retail display, part of which was a basket of his new chrysanthemum, Mrs. H. A. Schroyer.

Other exhibitors almost as good as those getting awards: E. P. Hostetter, yellow daisies; A. F. Strickler, pom-

[illegible]

NEW YORK EXHIBITIONS

AMERICAN INSTITUTE CHRYSANTHEMUM SHOW.

New York enjoyed two shows last week. The first to open its doors was the American Institute Show, held at the Engineering Building on West 39th St., on Nov. 8, 9 and 10. The exhibition was decidedly the best ever given by the Institute and Secretary Eagleson with his right bower W. C. Rickards were justified in their pride over the results of their labors. There were eighty-eight plant and flower classes in the schedule and awards were made in 83 of them.

One of the most admirable entries was that of new Japanese Anemone seedlings by C. D. Shaeffer, gard. for Richard Mortimer, Tuxedo Park. The flowers were of enormous size and splendid finish. A diploma was awarded. Among the big guns in the cut chrysanthemum classes were Chas. H. Totty, W. W. Vert, gard. for Howard Gould, Port Washington. Robert Jones, gard. for Percy Chubb, Glen Cove, Ernest Robinson, gard. to Mrs. M. F. Plant, Groton, Conn., George Ferguson, gard. to Mrs. Payne Whitney, Manhasset. Totty had six 1sts, Jones 13 1sts and two 2nds, Robinson four 1sts and seven 2nds, Vert four 1sts and three 2nds. Other winners in cut bloom classes were, Scott Bros., Elmsford, R. E. Tyson, gard. for Mrs. H. McKay Twombly, Convent Sta., N. J., Fred. Hitchman, gard. for Ralph Pulitzer, Manhasset, Frank Black, gard. for C. E. Chapman, Oakland, N. J., Max Schneider, gard. for Peter Hauck, Jr., E. Orange, N. J., G. J. Wilson, supt. for C. K. G. Billings, Oyster Bay, Wm. Cameron, gard. for Thos. N. McCarter, Rumson, N. J., Wm. Lackey, gard. for David Guggenheim, Elberon, N. J., Chas. Young, gard. to Mrs. J. I. Straus, Mt. Kisco, Geo. Fisher, gard. for Morris Kinney, Butler, N. J., J. G. P. Kennedy, gard. for Mrs. Lyle Samuel, Tenafly, N. J., J. Cook, Hackensack, E. D. Smith, Adrian, Mich., H. Gaut, gard. for H. L. Pratt, Glen Cove, Wm. Brown, gard. for C. W. McAlpin, Morristown, N. J., and P. W. Popp, gard. for Mrs. H. Darlington, Mamoreneck. No finer blooms have ever been shown in all the prominent varieties, but the variety Wm. Turner took the lead here as elsewhere for spectacular effect.

On plants, Peter Duff was the principal winner. Frederick Hitchman, R. M. Johnston, gard. for W. B. Thompson, Yonkers, A. MacDonald, gard. for D. E. Oppenheimer, Yonkers, F. Hitchman, and Charles Young were winners in this section. Garza still holds its precedence as a pot plant. Mr. Hitchman had a great specimen of this old favorite.

L. A. Noe, Chas. H. Totty, Wm. W. Vert and Wm. Lackey were winners in rose classes. Chas. L. Stanley, Thos. B. Wilson and Robert Grunert in carnations. Wm. W. Vert in begonias, F. Hitchman in violets. There were some excellent fruit and vegetables, for which munificent prizes were awarded.

Medals were given as follows:

Robt. E. Tyson, best collection of chrysanthemum varieties, silver medal; Frederick Hitchman, best specimen chrysanthemum plant, silver medal; Robert Jones, best vase of chrysanthemums, medal of superiority; Robert E. Tyson, best collection of vegetables, medal of superiority.

Many special awards were made to exhibits not in schedule competition. Among these were a collection of pompons from R. Vincent, Jr. & Sons Co., Whitmarsh, Md.; E. D. Smith & Co., seedling pompon Little Gem; A. N. Pierson, group of chrysanthemums and novelty roses; C. H. Totty, displays of chrysanthemums and roses; Wm. Tricker, Nymphaea Mrs. Woodrow Wilson; Max Schling, floral decorations.

The judges were Eugene Duille-Gouze, John G. McNicoll, William Turner, Peter Duff, George Middleton, Alex. Mackenzie.

EXHIBITION OF THE HORTICULTURAL SOCIETY OF NEW YORK.

The attendance at the big show of the Horticultural Society of New York in the Museum of Natural History totaled 199,993 persons for the three days, thus breaking the record made last year. On Sunday afternoon the crush at the building was so great that policemen formed the crowd in two columns and required them to retain this formation. The waiting line to enter extended at four o'clock from the entrance of the Museum east in Seventy-seventh street almost to Central Park West. Automobiles, as on the previous day, were not allowed to enter the driveway on account of the crowd, but had to leave their passengers at the street entrance.

The central attraction was the group of trained specimen plants grown by John Canning, supt. for A. Lewisohn, Ardsley. These, as before, were placed in the spacious rotunda and roped off. They were in 20-inch tubs and marvels of symmetry and size. Our judgment was that they were even finer than last year's plants, if that were possible. There were four in bush form, the varieties being Lady Lydia, Wells Late Pink (white sport), Ella Scoville and R. F. Felton. Two others were trained in the form of pillars, ten feet high and two in fan shape, the latter being in two colors. J. W. Smith, gard. for F. E. Lewis, Ridgefield, Conn., had some plants in competition, which received 2nd prize but would have taken 1st in any other show in the country. W. J. Sealey, gard. for Chas. Mallory, Port Chester, R. M. Johnston, gard. for W. B. Thompson, Yonkers, James Linane, gard. for G. D. Barron, Rye, and Robert Marshall, gard. for J. R. De Lamar, Glen Cove, were the other giants in the specimen plant classes.

In chrysanthemum cut blooms the exhibits were very extensive and quality superb. In the commercial section Charles H. Totty was supreme in all classes, Scott Bros. being 2nd. Non-commercial growers competed heavily

in the various classes assigned to them, A. Lewisohn, Duke's Farm, Mrs. Payne Whitney, Fred'k Sturges, gard. Thos. Bell, Fairfield, Conn., G. B. Schley, gard. Wm. Huckvale, Far Hills, N. J., Mrs. E. S. Bayer, gard. Alex. Thomson, Mt. Kisco, H. M. Tilford, gard. Jos. Tansey, Tuxedo, E. L. Meyers, gard. W. G. Ellis, Huntington, and A. Iselin, Jr., gard. Jos. Tiernan, were the principal winners. For dinner table decoration, chrysanthemum flowers only, with any appropriate foliage, Mrs. Payne Whitney was 1st, W. B. Thompson, 2nd, Thos. Aitchison 3rd.

Of exceeding interest and beauty were the groups of greenhouse foliage and flowering plants, 150 sq. ft. W. B. Thompson won 1st with a lovely arrangement in which lilies and crotons were prominent components; 2nd was awarded to Mrs. F. A. Constable, gard. Jas. Stuart, whose arrangement was also a gem, with spray orchids, begonias, lilies, fuchsias, etc.

Next in interest and value were the orchids. In the commercial classes Julius Roehrs Co., were 1st with a noble collection and got a silver medal for novelty not shown here before with *Cypripedium Alma Gaewart*. J. A. Manda won on twelve plants and six plants and Lager & Hurrell with fine collection of cypripediums. In the non-commercial exhibits there were some beautiful things. The Clement Moore special was won by A. N. Cooley, Pittsfield, Mass., with *Laelio-cattleya Firminii*. This plant also won the sweepstakes prize as the best orchid plant in the show. Clement Moore, gard. J. P. Mossman, Sam'l Untermyer, gard. Geo. H. Janes, were orchid winners also.

In the commercial classes for roses, Chas. H. Totty won the silver medal for variety not in commerce. Other winners in various rose classes were F. R. Pierson Co. and L. A. Noe. Cottage Gardens Co., won the silver medal sweepstakes and diploma for finest vase and new variety of carnations. The non-commercial rose and carnation classes were hotly competed for by a large number of private gardeners. On vase of fifty roses arranged for effect Rudolph Heidkamp, gard. for Mrs. Pauline Boettger, Riverdale, was the winner. Unfortunately our space is insufficient to record the various classes in this section and in decorative foliage and flowering plants. A large number of "specials" were awarded, of which the following are some of the most important.

John Scheepers & Co., Inc.: superb collection of winter flowering begonias, gold medal.

Adolph Lewisohn: group of bush chrysanthemum plants, gold medal.

Albert Crane, Stamford, Conn., gard. Alex. Geddes: collection of seedling chrysanthemums, certificate of merit.

H. Gaut, Glen Cove, N. Y.: seedling chrysanthemums, certificate of merit.

R. Mortimer, Tuxedo Park, N. Y., gard. Carl D. Schaeffer: Japanese anemone seedlings, certificate of merit.

Mrs. Wm. Barr, West Orange, N. J., gard. Emil Pannuska: seedling chrysanthemums, certificate of merit.

George Glatas: *Nephrolepis King Constantine*, certificate of merit.

Mrs. H. Darlington: display of dahlias, silver medal.

Young & Nugent: basket, diploma. Duke's Farm: grapes and melons, silver medal.

The judges were: Wm. Robertson, W. H. Waite, Wm. Mackay, Geo. Foulsham, Alex. Robinson and Thos. Wilson.

CLUBS AND SOCIETIES

AMERICAN SWEET PEA SOCIETY.

A meeting of the executive committee of this society was held at the Hotel Breslin, N. Y., on Friday, Nov. 10, there being present Geo. W. Kerr, president; Harry A. Bunyard, secretary; Wm. Sim, treasurer; J. Harrison Dick, Wm. Gray, Edward Jenkins and W. A. Sperling.

A report was received from Geo. W. Kerr and W. A. Sperling, who were appointed an auditing committee at the annual meeting last July. They reported the books in good order, with a balance of \$147 in cash on hand and all expenses and bills paid. Their report as set out in the following paragraph was accepted and they were discharged with thanks.

TRIAL BALANCE, NOVEMBER, 1916.

Dr.	
L. 10, Vases	\$220.24
L. 40, Guarantee Fund	25.00
L. 67, B. H. Show acct.	420.50
L. 25, Expense	265.01
Cash 45, Cash on hand....	147.99
	\$1,157.74

Cr.	
L. 1, Membership	\$152.00
L. 41, Guarantee Fund	260.00
L. 51, Prize Donors	306.00
L. 52, Prize Donors, outsiders ..	85.00
L. 75, Receipt, gate	75.00
L. 110, Surplus Fund	259.74
When \$20 received from B. H. Horticultural is posted.	20.00
	\$1,157.74

A warm vote of thanks was passed to Chas. H. Totty, Madison, N. J., and John Stalford, Bar Harbor, Me., who between them had procured subscriptions for a special fund, amounting to \$276; Mr. Totty having obtained \$160 and Mr. Stalford \$116. It was through their efforts that the society's finances were put on a sound basis at this time.

It was proposed that all members whose dues were three years in arrears be dropped. An urgent letter of appeal will be sent to those who are delinquent. There are 75 members in good standing at the present time, and 10 life members.

A long general discussion took place in regard to ways and means of assisting the society and enlarging its membership. It was eventually resolved that some publication, to be called a bulletin, be prepared containing useful articles on varieties, cultivation and so forth, this to be published together with the schedule early in January. Advertisements will be solicited to help pay the cost of the bulletin. The schedule, with minor alterations, it is hoped, will be on the same lines as that of last year. Edwin Jenkins proposed that the next show be held in Boston, Mass., the date being the first Saturday after the 4th of July. Wm. Gray seconded, and it was agreed to. Wm. Sim was appointed a committee of one to interview the trustees of the Massachusetts Horticultural Society with a view to obtaining a guarantee from that society of assistance toward the prize fund for the show.

Meetings Next Week

Monday, Nov. 20.

Detroit Florists' Club, Bomb Floral Hall, Detroit, Mich.
Houston Florists' Club, Chamber of Commerce Rooms, Houston, Tex.
New Jersey Floricultural Society, Orange, N. J.

Tuesday, Nov. 21.

Gardeners' and Florists' Club of Boston, Horticultural Hall, Boston, Mass.
Gardeners' and Florists' Club of Ontario, St. George's Hall, Toronto, Can.
Minnesota State Florists' Association, Minneapolis, Minn.
Pennsylvania Horticultural Society, Horticultural Hall, Philadelphia, Pa.

Wednesday, Nov. 22.

Oyster Bay Horticultural Society, Oyster Bay, N. Y.

Friday, Nov. 24.

Connecticut Horticultural Society, County Bldg., Hartford, Conn.
Monmouth County Horticultural Society, Red Bank, N. J.
Pasadena Horticultural Society, Pasadena, Calif.
People's Park Cottage Gardeners' Association, Paterson, N. J.

Saturday, Nov. 25.

Dobb's Ferry Gardeners' Association, Dobb's Ferry, N. Y.

An invitation to meet with them had been received from the officers who are arranging the National Flower Show at St. Louis in 1918, and who are offering \$250 as prizes for sweet peas. It was resolved to suggest that this sum be at least doubled, since few growers, it was thought, would be induced to send displays unless liberal prizes were offered. General satisfaction was expressed at the prospects before the society, and it is hoped that a successful year lies ahead.

HARRY A. BUNYARD, Secy.

NASSAU CO. HORTICULTURAL SOCIETY.

At the monthly meeting of this society Wednesday evening, Nov. 9th, the principal feature was the competition by assistant gardeners for the best table decoration for prizes offered by Robert Jones, James Holloway, Samuel Trepass and Daniel Coughlin were appointed as judges and they awarded 1st prize to James Waite, 2nd to George Ford and 3rd to Arnold Gattiker. Cut chrysanthemums comprised the other exhibit of the evening and for these classes John Johnstone, Joseph Adler and Frank Watson acted as judges. They awarded 1st prizes to James McCarthy, and to John Dombrowski certificate of culture for single chrysanthemum Emma, and honorable mention for a seedling anemone. After the meeting a most enjoyable smoker was held. Our annual meeting will be held the second Wednesday in December at 2 o'clock in the afternoon. Election of officers will there take place.

JAMES MCCARTHY, Cor. Sec'y.

NEW YORK FLORISTS' CLUB.

In the call for the regular meeting, Monday evening, Nov. 13, Secretary Young gave a mild intimation of the joyful time in store for the members and their ladies, and the attendance was of a size and character to well attest the wisdom of this Ladies' Night festival. Our account of the affair should properly go in the "During Recess" column, for business was quickly despatched and everybody flocked to the spacious dance hall on the floor below the club rooms, where they found the band and the caterer and the house committee all ready for big doings. So seductive was the entertainment and dancing that the clock struck 1 A. M. before the merry revellers were ready to go home. It certainly was one glorious celebration and pleased everybody. At the short business meeting which preceded the entertainment, nomination of officers was put through with the following result:

For President—Chas. Schenck, Henry Weston, Frank R. Pierson, Thos. B. De Forrest, G. E. M. Stumm.
Vice-President—J. H. Flosser, Max Schling, P. W. Popp, W. G. Badgley.
Secretary—John Young, J. Harrison Dick (declined), M. C. Ebel.
Treasurer—W. C. Rickards, Wallace R. Pierson, James McHutchison.
Trustees—Roman J. Irwin, Christian Madsen, John Canning, A. Kottmiller, Chas. H. Brown, Victor Dorval.

George T. Schuneman, of Baldwin, sent a handsome exhibit comprising fifteen varieties of sweet peas. Frank Dinda showed seedling anemone chrysanthemums and Paper White narcissi.

NATIONAL ASSOCIATION OF GARDENERS.

President W. N. Craig, of the National Association of Gardeners, has appointed the following committee on Convention Publicity: George W. Hess, Washington, D. C.; William Kleinheinz, Ogontz, Pa.; David Fraser, Pittsburgh, Pa.; Robert Cameron, Cambridge, Mass.; John Canning, Ardsley, N. Y.; P. W. Popp, Mamaronck, N. Y.; Thomas J. Wilson, Tuxedo Park, N. Y.; Anton Bauer, Deal Beach, N. J.; James Duthie, Oyster Bay, N. Y.; John Barnett, Sewickley, Pa.; Edw. Jenkins, Lenox, Mass.; William Gray, Newport, R. I.; Thomas W. Head, Lake Forest, Ill.; Albin Martini, Lake Geneva, Wis.; L. P. Jensen, St. Louis, Mo.; Percy Ellings, Menlo Park, Cal.

The convention will be held in Washington, D. C., December 5 and 6 and in addition to an interesting program, which has been provided for the meetings, entertainment of the visiting members has not been overlooked. There is to be an auto trip through the park system of Washington, a visit to the White House, Capitol and the various departmental buildings, and to the country estate of George Washington at Mount Vernon. A large attendance both from the east and west is looked for.

PITTSBURGH FLORISTS' AND GARDENERS' CLUB.

Chrysanthemum Night, Nov. 7, was well attended. We have had larger exhibitions, but in quality this one was unsurpassed. In exhibition blooms the private gardeners were in the lead, the commercial men making no attempt to compete in size.

M. Curran, from the estate of Mrs. E. M. Horne, Sewickley, showed doubles Daily Mail, Mrs. H. J. Jones, Gilbert Drabble, Wm. Rigby, Odessa, Elberon; also pompons and singles, including Excelsior, and some seedlings, and was awarded a first-class certificate. A. A. Leach, gardener for H. J. Heinz, received a certificate of merit. Wm. Thomson, gardener with W. P. Snyder, Sewickley, received a cultural certificate for fine blooms. Thos. Sturgis, gardener with Mrs. A. Laughlin, Sewickley, was given honorable mention for singles. Bureau of Parks, Jno. W. Jones and Jas. Moore, foremen, received first-class certificate for the best double white chrysanthemums ever shown before the club. C. H. Godwin & Sons, Bridgeville, Pa., showed commercial doubles and singles, and received a cultural certificate.

Single and pompon chrysanthemums were in very good form and pleasing colors, and the general opinion seems more and more in favor of them, not only for their intrinsic beauty but for commercial purposes. It may be that the time will come when the present monster bloom will be displaced by the artistic, graceful and reasonably priced singles. The judges were Neil McCallum, Fred Purki and Walter Jordan.

The chairman of the committee having in charge the banquet in celebration of the 25th anniversary of the founding of the club, reported the date as the 21st of November and the place as the Fort Pitt Hotel. A good deal of interest is being manifested in this banquet, and the members are looking forward with great pleasure to an evening of feasting, gladness and song and reminiscences of the old days. H. P. JOSLIN, Secy.

LENOX HORTICULTURAL SOCIETY.

The annual meeting and election of officers of this society was held November 8th. The evening was given over entirely to business. Reports were submitted and recommendations made concerning the fall exhibition which proved a big success. It was voted to purchase for the use of the society a die, together with six silver and six bronze medals to be awarded for exhibits of special merit.

The retiring vice-president, E. W. Edwards, supt. to A. N. Cooley, Pittsfield, was unanimously elected president for the ensuing year; Alex. McLeod, supt. to A. R. Shattuck, was chosen to fill the vice-president's chair. The resignation of the secretary was accepted and H. Heeremans selected in his place. Ed. Jenkins, S. Carlquist and A. J. Loveless (treasurer) made a few remarks for the good of the society, recommending a get-together of members to endeavor to make the season's meetings still more interesting and instructive, also to obtain as many new members as possible. J. H. FRAMPTON, Asst. Secy.

AMERICAN ROSE SOCIETY.

The Executive Committee of the American Rose Society held two sessions in Horticultural Hall, Philadelphia, Pa., during the chrysanthemum show. Provisions were made to hold the next annual exhibition and rose show in Philadelphia next March. The prizes allotted for the show were—\$750 for plants and flowers; \$1000 for rose gardens; \$2000 for cut flowers. The schedule committee is Messrs. E. Allan Peirce, Waltham, Mass., Thomas Roland, Nahant, Mass., J. K. M. L. Farquhar, Boston, Mass.

A letter was read from John Young, Secretary of the National Flower Show committee, inviting the American Rose Society to join with them in an exhibition in St. Louis in 1918.

Messrs. Kallen & Lunnemann, Boskoop, Holland, have sent six specimens of roses for test in the Hartford Rose Test Garden.

At the evening meeting there was an attendance of over fifty. E. Allan Peirce stated the work of the show, and a letter was read from the Philadelphia Chamber of Commerce, inviting the American Rose Society to come to Philadelphia "The World's Greatest Work-shop and Convention City" promising every co-operation for its success. The following gentlemen spoke in favor of the exhibition going to Philadelphia—Messrs. Farenwald, Eisele, Simpson, Kleinheinz, Brown, Mills, Dodge, Cartledge, W. R. Piereson Skidelsky, W. A. Manda and others.

The guarantee fund as pledged so far is \$4565, fifty-one firms and individuals making up the amount.

BENJAMIN HAMMOND, Sec'y.

Beacon, N. Y.

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

A well attended and interesting meeting of the Westchester and Fairfield Horticultural Society was held in Greenwich, Conn., Friday evening, Nov. 10. An interesting display was on the exhibition tables and the following awards were made: Roses from John Forbes and grapes from Anton Pederson, highly commended; seedling chrysanthemums from Jas. Foster, certificate of merit; single chrysanthemums from Carl Hankenson, cultural certificate; Solanum capsicastrum from H. F. Bullpitt, honorable mention. A pleasing feature was the presentation of the prizes won at the recent Fall Exhibition, Oscar Addor acting as spokesman. A social session with refreshments was provided by the principal winners that proved a happy ending for the exhibition season of 1916. Another interesting feature was the discussion of the various exhibitions attended by several members, including Lenox, Mass., Tuxedo, N. Y., Glen Cove, L. I., and Tarrytown, N. Y., in addition to our own as well as those in N. Y. City. The next meeting will be held Dec. 8, when the election of officers will take place.

P. W. POPP, Cor. Secy.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The annual meeting of the Massachusetts Horticultural Society will be held at Horticultural Hall, Boston, on Saturday, November 18, at twelve

o'clock. The principal business of the meeting will be the election of a president, a vice-president, four trustees, and a nominating committee of five members.

The voting will be by Australian ballot and the polls will be open from twelve to three o'clock.

WM. P. RICH, Secy.

CLUBS AND SOCIETY NOTES.

The November meeting of the Cincinnati Florists' Society was held Monday evening at Hotel Gibson. President Wm. Schumann appointed a preliminary flower show committee to formulate plans for a fall show next year and report to the society at the December meeting.

Politics occupied the entire evening on the occasion of the meeting of the Florists' Club of Washington, D. C., this being a subject of exceptional interest to the local trade. It was stated at the meeting that there will probably be an inaugural ball next March. When President Wilson was elected for the present term he refused to consider this and thousands of dollars' worth of business was lost to the trade. It was also predicted that, under the present Mrs. Wilson, social activity at the White House would be revived.

DURING RECESS.

Boston Florists' Bowling League.

Scores, Nov. 9, 1916.

Snyder	408	437	405	1250
Flower Market	427	438	437	1302
Penn	417	393	387	1197
Waban	431	414	434	1279
M. & M.	437	439	409	1285
N. England	418	392	393	1203
Robinson	434	451	378	1263
Flower Exchange	439	415	415	1269

Plant Propagation, Greenhouse and Nursery Practice

By M. G. KAINS

We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensive and practical, and it should meet with a ready sale among plantmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagating by buds, layering, cuttings, grafting, etc., fruit tree stocks, clones, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and half-tone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of HORTICULTURE at publisher's price, \$1.50.

Horticulture Publishing Co.

147 SUMMER ST., BOSTON, MASS.

TEN THOUSAND AZALEA INDICA AT AUCTION

On TUESDAY, NOVEMBER 21st, at One O'Clock P. M.

TO BE OFFERED IN CASE LOTS

The MacNiff Horticultural Co.

52 to 56 Vesey Street, NEW YORK

THE LARGEST HORTICULTURAL AUCTION ROOMS IN THE WORLD

MASSACHUSETTS AGRICULTURAL COLLEGE.

Nov. 11, 12 and 13 saw the biggest and most successful flower show ever staged at the Massachusetts Agricultural College. Close on to 4,000 visitors viewed the displays, which were largely chrysanthemums, but roses, carnations, etc., were not by any means overlooked. Penn the Florist, of Boston, sent a basket of violets, and Thos. F. Galvin sent a large colonial bouquet, both of which received a great deal of attention.

An exhibit of chrysanthemums from California, was sent in by H. M. Robinson & Co., and considering the journey they had taken, were in good shape. E. D. Smith, of Adrian, Michigan, also sent in an excellent exhibit. E. A. Richards, of Greenfield, Mass., made a very fine display of carnations, for which he received a certificate of merit. Especially fine was his new deep-pink carnation seedling No. 110. An exhibit of evergreens by E. J. Canning, of Northampton, also received an award. The commercial men's classes were very successful. A team of six senior students judged these exhibits. Butler & Ullman, Sinclair & Son, Galivan Bros. and R. S. Carey took the greater part of the awards in these classes.

In the students' competition some very excellent work was shown. In the junior competition for table decorations F. A. Woods, of Groton, took the first prize with a table of Ophelia roses and Cocos palms. L. H. Lawrence, of Falmouth, was placed second with a design of allamanda and bouvardia, while Miss Adaline Ferris took third on a table of single yellow chrysanthemums. R. L. Clapp, of Salem, and G. J. Duncan, of Arlington, received honorable mention. In the basket competition open to seniors, J. C. Campbell, of Gardner, took first in both small and large baskets. In the large baskets H. C. Lydiard, of Hartford, Conn., and H. A. Pratt, of Shrewsbury, placed second and third. In the small baskets, M. R. Lawrence, of Falmouth, and A. N. Schwab, of Yalesville, Conn., took the second and third prizes.

A collection of house plants shown by the college attracted much attention and comment from the public. The pergola details worked out by Prof. A. H. Nehrling and Mr. Whiting proved very pleasing. Prof. Nehrling

TREES
Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties.
Sturdy, choice stock that can be depended upon. Send for catalogue and special trade prices.

The Bay State Nurseries

North Abington
Mass.

SHRUBS
This New England soil and climate produces fine sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate

was on the job with his staff from morning till night, and it was due to his tireless vigilance that the show was such a tremendous success. Much credit also should be given the students and the Northampton & Holyoke Florists' & Gardeners' Club for their hearty co-operation.

UNHEALTHY PRIMULA OBCONICA

Mr. John J. M. Farrell,

Dear Sir: I am sending you under separate cover a few leaves taken from *Primula obconica* and if you will kindly let me know what is the trouble with the plants I will be greatly obliged. It is not only the lower leaves which are turning this way but it seems to extend over the entire plant. They are not pot bound but have been in the same pots for about three months and I thought perhaps the soil was sour so yesterday I watered them all with lime water but came to the conclusion that I had better not do anything more without your advice. I have not been feeding them at all up to this time. They are in four inch pots. Last year I brought them on in this size and did not have any trouble with them turning yellow. In case the leaves do not arrive in good shape I will say that the whole outer edge turns yellow first and then extends over the whole leaf. They are given full light every day but I notice that some which are in partial shade are turning the same way. If you will help me out it will be greatly appreciated.

Thanking you for past and present favors, I am, Very respectfully yours,

New Jersey.
P. S.: I would like to state that without your articles in HORTICULTURE I would hardly know how to get along in this business. A. S.

In answer to Mr. S. I would say there are many causes that would tend to make the foliage turn yellow. Too much water at the roots, or too little, will cause it and the nature of the soil plays a big part with the foliage of all plants. It can also be caused by too heavy fumigations, especially with tobacco stems. May be that you are feeding them too heavily; this also will cause it. All you can do is try to nurse them back to good health by giving them 50 to 52 degrees night temperature with 10 to 15 degrees higher with sunshine and 55 to 58 degrees during dull weather. Keep the soil in an even state of moisture and if you have them plunged look them over and see that the drainage hole in the pot is kept clear.

J. J. M. FARRELL.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year, in advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
HATBORO, PA.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St., Weehawken Heights, N. J.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY. Small, medium and large sizes supplied. Price list now ready.

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers in America.
BOX 415, DUNDÉE, ILL.

GLADIOLI

New Catalogue Ready

JOHN LEWIS CHILDS, Inc.
FLOWERFIELD, L. I., N. Y.

When writing to advertisers kindly mention HORTICULTURE.

Obituary

Katharine Elizabeth Freeman.

Katharine Elizabeth Freeman, daughter of Mrs. Mary E. Freeman and the late J. R. Freeman, passed away after an illness of four months, at the age of twenty-four years. Miss Freeman was the sister of Joseph and Louis Freeman, who have been conducting the business founded by their father, for Mrs. Freeman. The sympathy of many of the florists was evidenced by handsome floral offerings. Prior to her illness, Miss Freeman was a familiar figure around the Freeman greenhouses.

Trueman Lanham.

The sudden death of Trueman Lanham, superintendent of trees and parkings of the District of Columbia for thirty-one years, came as a great shock to the gardeners and florists of Washington, to whom he was very well known. About a week prior to his death Mr. Lanham, then in good health, went to Fort Howard, Md., to visit his son. He took cold shortly thereafter and his heart became affected, death resulting on November 11. Since Mr. Lanham's appointment when the first parking commission was provided for in April, 1885, he has done a remarkable work in beautifying the city. He was born in Prince Georges county, Md., February 13, 1940, and is known as the founder of Lanham, Md., where he has been making his home. One of his sons, Clifford Lanham, is assistant superintendent of trees and parkings. In addition, he is survived by his wife, Paul Lanham, Mrs. A. L. Fitz Simons, and Mrs. F. B. Haskell.

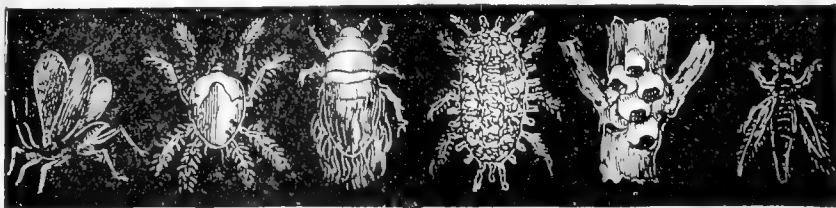
George Bird.

Pathetic circumstances surround the death, on November 6, of George Bird, 67, a florist of Brockton, Mass., who passed away after twelve days of suffering at the Brockton hospital where he had submitted to an operation for ruptured appendix. In a Boston hospital lies his widow, Mrs. Mary Pierce Bird, who is unaware even that her husband has been ill and knowledge of whose death must be kept from her for the present owing to her own serious condition. Typical of a life of devotion to his afflicted wife, whose care and comfort for years has been first in his thought and chief in his consideration Mr. Bird wished final news from her bedside before giving himself up to the operation. Cheering reports of her condition gave him courage for his own ordeal. It was his request from the first that news of his illness be kept from her as he feared its effect upon her in her weakened condition. The couple have no children and have lived a retiring life for over thirty

Hammond's Thrip Juice No. 2

REGISTERED

A Contact Insecticide, Useful and Reliable, Used for 30 Years in Greenhouses, and on Plants, Grape Vines, Trees and Shrubs



Some common Sucking Insects, magnified.

HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.

years in the house at 1147 Pleasant street, Brockton Heights, which was built by Mrs. Bird's parents. They conducted a small greenhouse and for years have left their home but seldom.

Fred. W. Vick.

After an illness dating back for several months, Fred. W. Vick died at his home in Rochester, N. Y., on Sunday,



FRED W. VICK.

November 12. Mr. Vick was born at Rochester in 1855. He began his career as florist and grower with the late James Vick, and during the last few years he was superintendent of the greenhouses. It was while with this firm he was instrumental in introducing Vick's Caprice rose. About 1892 he, with his brother E. H. Vick and John Hill, formed the Vick & Hill Co. He remained at the head of this concern until about three years ago when he disposed of his interest and took up the growing of flowers for the wholesale market. He introduced Vick's Daybreak and Purity asters as well as several other good varieties of flowers, among them Vick's Ruffled petunia. Mr. Vick was one of the



The Recognized Standard Insecticide. A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON



NIKOTEEN

For Spraying
APHIS PUNK
For Fumigating

Ask Your Dealer For It.
NICOTINE MFG. CO.
ST. LOUIS

charter members of the Rochester Florists' Association and was its president for the first three years. He served as vice-president of the S. A. F. in 1910, the year of the Rochester convention.

BULBS BOXWOODS AT AUCTION

Do Not Forget Salesdays — Monday and Thursday
Consignments Solicited

JOHNSON & MILLANG, Inc., Auctioneers

Coogan Building, 55-57 West 26th Street, New York

Under Cut Flower Exchange

Salesdays Monday and Thursday at 10 A. M.

10,000 square feet devoted to our auction business

WRITE FOR CATALOGUE

VEGETABLE GROWERS' ASSOCIATION OF AMERICA.

Report of the Committee on Nomenclature and Varieties by Prof. C. E. Durst.

The principal work of the Committee on Nomenclature of the Vegetable Growers' Association of America the past year has been done in connection with a similar committee appointed by The American Seed Trade Association for the express purpose of co-operating with us. In handling this subject your committee has taken the same position that the American Pomological Society took over fifty years ago. We believe a variety name should contain as few words as possible. It should be distinctive and, if possible, suggestive of the variety for which intended. The rights of the originator and introducer should be fully recognized and conserved. A name already in use for one variety should not be used for another variety. The name of the variety, once given, should not be changed. In the last analysis, the whole proposition revolves around the point as to whether or not the seedsmen should exercise absolute control over the name. In other words do they own it? Your committee, after long and careful thought, believes that so long as a seedsman, or any other person for that matter, has a variety under test, or is growing it for his own personal use, he may call it anything he wishes or may change the name as often as he desires. However, when a variety is once introduced to the trade, it automatically becomes a matter of concern to the general horticultural public, who should be entitled to some interest in the form and stability of the name.

Your committee feels it is almost futile to expect any important results in standardizing existing nomenclature. It is our hope that the seedsmen will be induced to drop off some of the superfluous descriptive adjectives. We hope also to dissuade them from renaming varieties now on the market. Beyond this, we hardly expect to accomplish much with existing conditions. If we can begin at the present point and secure the co-operation of the seedsmen in regulating and standardizing nomenclature for the future, we feel that the present complicated conditions will take care of themselves in due time.

In all of the correspondence and discussions, your committee has strongly contended that a duly authorized board or committee should be given charge of the testing, describing, establishing of types and certification of varieties. It is our idea that this committee or board in co-operation with the originator or introducer, would decide upon a name that typifies the variety, and at the same time recognizes the advertising value of a name to the dealers, protects the originator or introducer and conforms to

an established system of nomenclature to make buying easier for the consumers. The proposed introduction would be offered to the above board or committee for test, it being understood that no portion of the seed or stock should be given to other parties or used for any purpose other than testing. In order to further protect the introducer, he may offer the proposed variety to the trade at the same time it is offered for test. If, after due trial, the proposed new variety proves meritorious, it would be duly registered or certified.

We firmly believe that a policy of testing and certification will go a long way toward establishing and maintaining the rights of the originator and introducer. A man who originates or introduces a meritorious plant variety does as great a service for mankind as he who invents an improved machine, and certainly he should receive full credit for the same, and his rights should be conserved. With conditions such as have prevailed in the past, the identity of the originator and introducer are soon lost in the maze of names given a variety in the catalogues. The better the variety the more this is true, and the longer it takes the variety to work itself into favor.

The proposed testing certification, we believe, should be placed in charge of an authority who would have no interest or purpose other than be of service to all parties concerned. At the same time, this authority should be such that its findings and decisions would command respect by all parties concerned, and, of course, it should have a full understanding of the details necessary for conducting comparative tests. The U. S. Department of Agriculture, either alone or in conjunction with state experiment stations, should meet such qualifications, and the question remains as to whether or not it could be prevailed upon to conduct this important service. Your committee feels, however, that before any public institution should assume this responsibility, it should be duly authorized for the same. This feeling on the part of your committee, coupled with the fact that our relations with the seed trade people have suggested the great necessity of carefully working out all details before attempting and testing, led us to delay the testing which we hoped to start this year and which we stated we expected to do in the last year's report. Our thanks are due to the experiment stations who offered to co-operate in this work. We regret to have asked this favor of them and not to have taken advantage of it at once.

In regard to the length of the name, it is our idea that it should consist of not over two words, including that of the originator or introducer, if it is desired to prefix that. The seed trade people contend that a liberal use of descriptive adjectives is necessary

for the small home grower, who is not so familiar with varieties as the commercial grower. These people, they claim, can often get a more accurate idea of the characteristics of a variety from a number of descriptive adjectives than if they read the fine print. This view seems plausible on first thought, but the trouble about the matter is that one seed dealer goes one way in the choice of adjectives, and others go in other directions. Soon, they are so far apart that it is almost inconceivable that they had a common starting point. For instance, Prof. Tracy, in his study of best varieties, found the variety Early Blood Turnip (the original name) varying all the way from that name to Improved Extra Long Deep Blood Turnip, with practically every combination between. How could any grower, we ask, be certain that beets grown from seed sold under such widely different names would be of the same variety?

The members of the American Seed Trade Asso., it appears, feel that home growers know little about varieties. This contention needs qualification, we believe. Take the old standard Stone tomato, The Evergreen sweet corn. The Early Ohio potato and many others which might be named. What home grower is not familiar with these? No long string of adjectives is needed in these cases. Why should they be needed in other cases?

On the other hand, we admit that the home growers may not be so well acquainted with the introductions of recent years, but we feel that this is due largely to the fact that the names are not usually left long enough in the same form to enable these people to become acquainted with them.

As to the changing of names, your committee has held consistently that the name once given to a variety should not be changed. The American Seed Trade Asso. state it is necessary to change the name in some cases because they find a variety does not sell well under one name, that is, they allege that the name has no advertising value. For instance, at the Seed Trade Convention, one member stated that Golden Bantam sweet corn was formerly sold under another name, but that there was little demand for it. Mr. Burpee it was stated, recognized the value of the variety, renamed it, and from that time onward, the sales rapidly increased. This the member held, was the result of choosing a better name. Now, it will be remembered that the Burpee Seed Co. conducted a most strenuous advertising campaign in connection with Golden Bantam sweet corn, and we are inclined to feel that Mr. Burpee's genius in the field of advertising was more responsible for the increase in popularity than the mere changing of the name. With us, it is an open point whether or not the variety would not have met the same success

under the former name with the same advertising.

Now, we all recognize there is a great deal in a name, but we believe the most careful thought should be given this matter in the beginning so that changes will not be necessary. A firm concerted policy by members of the American Seed Trade Asso. toward retaining a name without change would prove beneficial to them in other directions that would more than offset any loss in advertising value because of having selected in the beginning a name that did not prove out well.

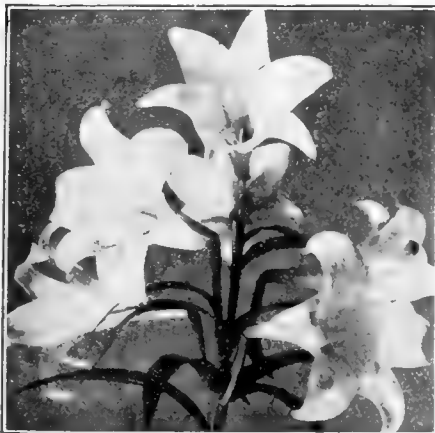
Your committee believes that multiplicity of names is in most cases brought about in the following manner. One seedsman introduces a new variety. It proves to be valuable. Other seed firms recognize its value and desire to profit by it. But they hesitate to put it out under the original name, not wishing to appear to follow in the other firm's footsteps so they secure seed of the variety and sell it under a new name. In fact, we have been told by seedsmen that this practice is often followed. The better the variety the more abuses of this kind occur. While it may mean the sale of some seed at high prices for a time, we believe that the other policy would be the better one, for plain business reasons, in the long run, since it would tend to re-establish the confidence of the growers in seedsmen, which we must admit is not the best at present.

Your committee has pointed out to the members of the American Seed Trade the advantage of advertising under a special strain name of a variety, rather than renaming. Take the Earliana tomato, for instance. It is probably sold under thirty or forty different names. On the other hand, there are a few firms who have not changed the name at all, but who have emphasized in their advertising their particular strain of this variety, using such names as Adirondack, Floracraft and Sunnybrook to designate the strain named. This method not only gives the vegetable grower some assurance as to what he is likely to get, but would seem to be better advertising policy for the seedsmen as well. The firm which emphasizes a particular strain of a variety has something tangible to build upon, whereas the firm which changes the name entirely has first to make the new name known and then must establish a reputation for the variety under that name. Being the only firm which is selling the variety under the name, it has an uphill job on its hand.

A number of other points have received consideration in the discussions and conferences between the two committees, but it is not possible to discuss all of them here. To summarize, your committee has asked that the superfluous descriptive adjectives be dropped; it has insisted that the practice of renaming be discontinued; and it has contended for greater uniformity in the catalogues of different seedsmen. So far as present nomenclature is concerned, we are not entertaining hopes of accomplishing a great deal, since too much friction would probably follow for the results likely to be attained. For the future, however, we are hopeful that a system of procedure can be worked

MICHELL'S BULBS

We have just received several late shipments of bulbs, all in fine condition.



LILIUM FORMOSUM

HENRY F. MICHELL CO., 518 Market St
PHILADELPHIA

HYACINTHS

First Size Named. Single and Double.
Second Size Named. Single.
Third Size Named. Single.

TULIPS

Single Early, Double Early, Cottage Garden and Darwin. In named varieties and mixtures.

NARCISSUS

Single and Double. A large variety.

LILIUM FORMOSUM

Green Stem Type. For early flowering.

Dark Stem Type. For Easter blooming.

Lil. Longiflorum Giganteum
Lil. Longiflorum Multiflorum

Write us your requirements on any of the above or any other Seasonable Bulbs.

OUR WHOLESALE CATALOGUE OF BULBS, SEEDS AND FLORISTS' SUPPLIES FREE.

SHAMROCK TRUE IRISH

Trade packet 25 cts., oz. \$1, ¼ lb. \$3, lb. \$10

5% Discount, Cash with Order.

ARTHUR T. BODDINGTON CO., Inc.
128 Chambers Street, New York

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes
Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of
Commerce Bldg., Boston, Mass.

out that will prevent further confusion. Mistakes of the past, we believe, will remedy themselves in due time if allowed to follow their natural course. If the seedsmen will adopt a system along the lines proposed with modifications, perhaps, as further experience will suggest, we feel certain that it will serve the interests of both parties. For the vegetable growers, it will mean easier buying and fewer disappointments, while for the seedsmen it will simplify business, decrease mistakes, and prove to be better policy from a business and advertising standpoint. The result would be a feeling of confidence between the growers and seedsmen, which is absolutely necessary for complete success in any business.

Buffalo—Buffalo's first free municipal flower show opened on Saturday evening, Nov. 11, at Elmwood Music Hall, the products of the various park conservatories maintained by the city being here assembled in a magnificent galaxy of color, which gave delight to thousands of enthusiastic visitors. The show continues all through the present week.

SEED TRADE.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending Nov. 3, were recorded as follows:

Bulbs—France, \$710; Netherlands, \$29,111; England, \$984; Hongkong, \$99; Japan, \$3,505.

Plants—Belgium, \$32,972; France, \$7; Netherlands, \$21,623; England, \$2,395; Ireland, \$108; Bermuda, \$272.

Red clover seed—France, \$7,204.

Clover seed—France, \$4,183; Canada, \$3,617.

Grass seed—Ireland, \$2,553.

Other seeds—Belgium, \$10; France, \$23,117; Italy, \$6,813; Netherlands, \$104; England, \$2,741; China, \$1,359; Japan, \$19,323; Argentine, \$902; Hongkong, \$22.

Fertilizers—England, \$128; Japan, \$8,000.

PATENTS GRANTED.

1,204,297, Lawn Sprinkler, Joseph Johnson Miller, Duluth, Minn.

Lilium Harrisii Bulbs

	Per 100	Per 1000
5 in. to 7 in.	\$4.50	\$36.00
7 in. to 9 in.	8.00	72.00

PAPER WHITE NARCISSUS GRANDIFLORUS

Prices on Application

WE OFFER to FLORISTS a CHOICE SELECTION of HYACINTHS, TULIPS, Etc. Etc., for forcing or outdoor planting.

Send us a list of your requirements and we will give you attractive special prices.

J. M. THORBURN & CO.

53 Barclay Street
Through to 54 Park Place
NEW YORK CITY

KELWAY & SON

SPECIALIZE IN

SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or Forward

Only Address, LANGPORT, Eng

Burpee's Seeds PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT

J. BOLGIANO & SON WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter flowering Pink Snapdragons on the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.
PHILADELPHIA, PA.

My new Price List of
WINTER-ORCHID-FLOWERING SWEET
PEA SEED

Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.

ANT. C. ZVOLANEK
Sweet Pea Ranch Lompoc, Cal.

HOT-HOUSE GRAPES

Strong Planting Canes \$3.50 each
Strong One Year Canes 2.00 each

IN 14 VARIETIES, INCLUDING

**Black Hamburg, Gros Colmar, Madresfield
Court and Muscat of Alexandria**

R. & J. FARQUHAR & CO.
BOSTON, MASS.

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

NEW CROP SEEDS

PANSY SEED. Giant flowering dorislet mixture. American grown. (Best money can buy.) 50c. per tr. pkt., ¼ oz. \$1.50, oz. \$5.00.
PANSY SEED SPECIAL. Greenhouse mixture for forcing; long-stemmed. \$1.00 per tr. pkt., ¼ oz. \$1.50, ¼ oz. \$2.50; oz. \$5.00.
SWEET PEAS. Zvolanek's Orchid Flowering in all varieties. I have his agency this season.

ROMAN J. IRWIN,
Plants, Cuttings, Bulbs, Seeds.
108 West 28th Street New York.

THOMAS J. GREY COMPANY
SEEDS, BULBS AND IMPLEMENTS
WHOLESALE AND RETAIL.

Reselected Strains in Seeds.
Improved styles in Implements.
Catalogue upon application.

29 So. Market Street
BOSTON, MASS

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

SEEDS, BULBS, PLANTS

AND

Florists' Necessities

AMERICAN BULB CO.

172 N. Wabash Ave., Chicago, Ill.

**LILIUM FORMOSUM
LILIUM HARRISII
LILIUM GIGANTEUM**

Prices on Application. Write for 1916
Bulb Catalog.

JOSEPH BRECK & SONS' CORP.
47-54 North Market St., Boston, Mass.

W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries

166 W. 23rd St., NEW YORK

GARDEN SEED

BET, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety. See our
list in the short crop of this past season.
Send us a full line of Garden Seeds will
send you upon application to

S. D. WOODRUFF & SONS
82 Dey St., NEW YORK and ORANGE, CONN

ALEX. McCONNELL611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.



"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.
BOSTON

FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

MAX SCHLING

22 West 59th St.
Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

The **Park Floral Co.**

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Of Interest to Retail Florists

NEW FLOWER STORES.

Harrisburg, Pa.—W. L. Keeney.

Bakersfield, Cal.—James Murray,
The Scofield.

Richmond, Cal.—Adolph Winters,
MacDonald street.

New Bedford, Mass.—Harry Reck,
169 Union street.

Washington, D. C.—C. E. Brooks, re-
moving to 1530 14th street.

Atlantic City, N. J.—Gensheimer
Flower Shop, 2608 Atlantic avenue.

Racine, Wis.—West Side Floral
Co., 912 Milwaukee avenue, succeeding
John Bourgaize.

New York, N. Y.—Rigo Bros., 810
Madison avenue. Colonial Florist, 3rd
avenue and 149th street.

NEWS NOTES.

Cambridge, Mass.—The greenhouses
owned by P. O'Brien & Sons, 1022 Mas-
sachusetts avenue, were destroyed by
fire November 9.

Cincinnati—Both the E. G. Hill
Flower Co. and E. A. Foster gave
flower shows at their respective
stores last week. Each was a suc-
cess, particularly from an advertising
standpoint. Mr. Foster had on dis-
play at his store an elegant assort-
ment of chrysanthemums while his
large 9 by 23 glass ice-box was filled
with choice roses. In the Hill store
was shown all the novelties in chrys-
anthemums as well as an excellent as-
sortment of other seasonable flowers.

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspond-
ence in all the large cities of Europe and the British
Colonies. Telegraph and Cable address. Dardsflor.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, - N. Y.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

48 STATE ST. - - - BOSTON
Telephone Main 58.

**JOHN BREITMEYER'S
SONS**

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good
sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery
Association.



GUDE BROS CO
1214 F ST NW
WASHINGTON DC

GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE
National Capital

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 306. Long Dist. Bell Phone 2186
Members Florists Telegraph Delivery

YOUNG & NUGENT

42 West 28 Street

New York

Members Florists' Telegraph Delivery

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction

MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1896 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L1532.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Member Florists' Telegraph Delivery Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State St.
Albany, N. Y.—The Rosery, 23 Steuben St.
Albany, N. Y.—William C. Gloeckner, 97 State St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th St.
Cleveland, O.—The Smith & Fettes Co., 735 Euclid Ave.
Denver, Col.—Park Floral Co., 1843 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.
New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—A. T. Bunyard, 413 Madison Ave., at 48th St.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—H. F. A. Lange.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

REUTER'S Members Florists' Telegraph Delivery

STORES IN
New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence
ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only
THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue
The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

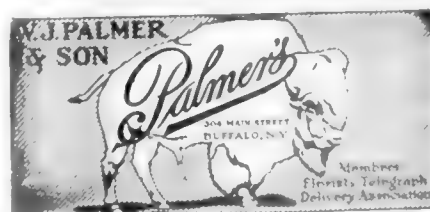
JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist *Member F. T. D. Association*

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

Growers of American Beauties say the buds of the Christmas stock are starting nicely now.

The students in the horticultural department of the University of Illinois, have charge of the decorations of the auditorium in which the Illinois Federation of Women's Clubs are holding their annual meeting this week, in Champaign.

The American Bulb Co. has just received two more cars of Japanese lilies. Samuel Seligman of this firm is back from a business trip and will remain here till after the holidays, looking after the sales of the large stock of Christmas novelties they have ready for the trade.

A cold wave has reached here and the thermometer registers but a few degrees above zero, much to the dismay of the florists who are not ready for winter. There are seven car loads of azaleas in cars in the Chicago yards, whose owners would much prefer to have safely housed.

Iles Cole is in the city looking up new stock and ideas for the holidays. He reports business in Springfield good. At the exhibit at the State Association last week, Mr. Cole had a fine collection of cyclamen, chrysanthemums and carnations, which they grow for their retail trade.

The Floral Art and Novelty Display given Sunday under the auspices of the Chicago Florists' Club seems to have made a good impression on the writers for the city papers. Monday's Herald includes in its write up, a picture of the little twin daughters, Mary Louise and Margaret Virginia, of Mr. and Mrs. Fred Lautenschlager, sitting in the big basket of flowers on the baby table. The Tribune was even more liberal with its praises of the show and gave a picture of Susanne Leslie, wearing one of the ankle bouquets. Miss Edna Frauenfelder, daughter of the big west side florist, also received commendation from the city press and well she deserved it. For the generous amount of space given to the display, those who stood back of the affair feel very appreciative of the help the local papers have been to them.

Among those who represented Chicago at the State Florists' Association at Bloomington, last week was A. Kohlbrandt of the E. C. Ambler Co. He described the exhibit as very good indeed and the attendance and interest in the meetings most encouraging. The exhibitors included growers from all over the state as well as Hill & Co., from Richmond, Ind., Crown Point Floral Co., Crown Point, Ind. and Robt. Craig Co., Phila. They were entertained at A. Washburn's, Edwardsville, Ill., by a luncheon and with an auto drive by the Commercial Club of Bloomington. A special feature of the meeting was the exhibit made by the school chil-

dren of chrysanthemum plants which they have grown themselves and for the best of which a prize of \$50 had been offered. Among the Chicago exhibits was a large bed of palms and decorative plants by Poehlmann Bros. Co.

WASHINGTON, D. C.

Dr. Walter Van Fleet has gone to Boston, New York and points in New Jersey to secure rare rose species.

Prof. F. L. Mulford has been spending considerable time in Norfolk and other Virginia cities studying chrysanthemums and ornamental plants.

Carpenters are again at work on the store of Marché & Co. A lease was consummated by Mr. Marché whereby he secures possession of the entire building in which the store is located.

The many friends of M. J. McCabe, of Good Hope, D. C., are welcoming him back after an absence of several weeks with relatives in New York endeavoring to overcome a nervous breakdown.

Southwick C. Briggs has sold his entire orchid collection consisting of in the neighborhood of 12,000 very valuable plants. It is expected that all of the stock will have been moved by December 25, after which time local florists must look to out-of-town sources for their orchid supply as none will be grown in this city hereafter.

William F. Gude was among the visitors at the Philadelphia and Lancaster, Pa., flower shows last week. He considers these to have been the best exhibitions that he has seen for some time. He declared, however, that the retailers of these sections were overlooking a big bet in failing to take advantage of the activities of the growers in making exhibitions advertising themselves at the same time.

The colored chauffeur employed by the Leo Niesson Co. had a very narrow escape from death last week when a touring car hit the delivery wagon which he was driving. His car turned a somersault and was thrown fourteen feet. The chauffeur emerged from the wreck badly scared but holding aloft an order of American Beauty roses which he had protected during the acrobatic proceedings of the machine.

PHILADELPHIA.

In our notes last week on the Philadelphia show, hurried proof reading was responsible for the word "cyclamen" appearing instead of chrysanthemums in reference to Mr. Seybold's exhibit.

The flower show wound up on Friday night with a good attendance and, all things considered, it was a very creditable exhibition. About the only thing not already reported on was the vegetable display staged on Thursday. This was unusually high grade and well staged—showing that even the vegetable growers are slowly beginning to realize that it is possible to put a little of the artistic touch into even their prosaic product.

NEW YORK.

L. A. Noe has gone away for a period of two weeks.

Angelo Dentale has opened a cut flower wholesale office at 41 West 28th street.

Wm. H. Long, of Columbus avenue, is in the hospital after undergoing two serious surgical operations.

The Wholesalers' Protective Association will have a banquet at the Hotel Breslin on Saturday night, November 18.

W. L. Trumpore has resumed his old position as buyer for J. H. Small & Sons, leaving his son in charge of his Staten Island store.

H. M. Robinson Co. are adding a department of florists supplies, sago palm leaves, etc., to their cut flower establishment in the Coogan Building.

Stumpp & Walter Co. have made extensive improvements in the arrangements of their various offices and departments in their Barclay street building.

In all the wholesale flower establishments holding membership in the Protective Association a notice is displayed announcing that from November 15 a deposit is required on all boxes, which will be refunded on return of the empties.

The annual chrysanthemum exhibition of the Park Department, Borough of Queens, opened last Saturday in greenhouses in Forest Park, Myrtle and Woodhaven avenues, Glendale. Nearly one hundred varieties are shown, some of them grown in soil brought from Japan. The exhibition will be open nights until 10 o'clock.

BOSTON.

Mr. and Mrs. Patrick Welch are in New York and Washington this week, celebrating their 25th wedding anniversary.

Frank J. Dolansky has donated a huge silver cup as a trophy to promote keen competition in the annual gridiron clashes between English and Classical High schools of Lynn, Mass.

Penn, the Florist, are holding their annual fall flower show commencing Thursday morning, to continue three days. The judges include William Nicholson, James Wheeler, W. N. Craig and Robert Cameron. Cash prizes will be awarded.

A. E. Kunderd, of Goshen, Ind., who has been visiting gladiolus growers in and about Boston, the past week, states that despite the weather conditions which existed during the spring season, his gladiolus bulbs came through all right and he has harvested one of the best crops in recent years.

ALWAYS LEADERS!

When you buy Bayersdorfer & Co. goods you get the best in the world.

BUY YOUR FALL SUPPLIES NOW

BASKETS BASKETS BASKETS

Chrysanthemum Baskets in Japanese novelty tints.
RED—RED—RED—specialties for Thanksgiving.

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Hampers and Flower Bowls.

Stock up now and have the goods to show customers. Send for prices and see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

PITTSBURGH.

The E. C. Ludwig Floral Company has just completed a storage house 68 by 25 feet, of concrete and tile, on their plant at Mars, Pa.

The A. W. Smith Co. has the contract for the landscape engineering on the recently purchased Sewickley Heights estate of Harold N. Van Voorhis.

J. M. Johnston, the McKeesport florist, has for some time been experimenting with girls for the light work in his greenhouses, and reported their services highly satisfactory.

Some of the finest William Turner chrysanthemums grown in this section are to be seen in the greenhouse of the old Thaw estate now leased by J. J. Fisher, where Neil Forsyth has supervision.

Mayor Joseph G. Armstrong has ordered Park Supt. Burke to contribute the floral decorations for the farewell reception to be held next Wednesday evening for Dr. John A. Brashear, who will leave on Thursday for a trip to the Orient.

Miss Corry De Pries has returned to Amsterdam, Holland, owing to the illness of her father. Miss De Pries has for several years been private secretary to Berthold Frosch, prior to which she was foreign correspondent for one of the large Dutch bulb houses.

At a recent dinner at the Allegheny Country Club, the dining room was transformed into a charming Japanese garden. In the center of

the room was a huge gazing ball in a bed of crotons from which led a path overgrown with tropical plants. A high handled gilt basket filled with assorted chrysanthemums was used on each of the twelve tables.

During the Western Penna Exposition just closed, about 25,000 pieces of literature were distributed by Norman S. Grubbs, assisted by Alexander R. Chambers, who has just entered the agricultural department of State College. The booth exhibits, which occupied about 1,000 square feet of floor space, included models of up-to-date lawns and gardens, fruits and vegetables, etc.

ST. LOUIS.

The Chrysanthemum Show at Shaw's Garden has drawn large crowds.

The St. Louis Florist Club met on Thursday, Nov. 9, at Odd Fellows Hall. Attendance small. Spring flower show committees reported progress.

F. C. Weber's store on Olive street has always an attraction for passers on the main Olive street car line. His window displays are artistic and very attractive.

VISITORS' REGISTER

St. Louis—Chas. F. Fairbanks, president American Gladiolus Society, Boston.

Boston—A. E. Kunderd, Goshen, Ind.; Dr. W. Van Fleet, Washington, D. C.

Chicago—J. J. Karins, representing H. A. Dreer, Philadelphia; A. J. Pannevis, representing Koster & Co., Boskoop, Holland; Iles Cole, Springfield, Ill.

Washington—William Weber, Oakland, Md.; S. H. Bayersdorfer, Phila.; Thomas Knight, New York; Joseph J. Goudy, Phila.; Joseph Kostrzewski, Orange, Texas.

Pittsburgh—George W. Cohen, New York; Robert Kift, Phila.; Martin Reukauf, representing H. Bayersdorfer & Co., Phila.; J. F. Dayton, Madison, Ohio; S. Cyama, Japan.

Philadelphia—William F. Gude, Washington, D. C.; Frank Friedley, C. W. Brown and S. N. Pentecost, Cleveland, O.; W. A. Simpson, Clifton, N. J.; Harry O. May, Summit, N. J.; H. M. Holmes and R. M. Holmes, Harrisburg, Pa.; Alexander Forbes, repr. J. F. Noll Co., Newark, N. J.

New York—Thomas Roland, Nahant, Mass.; Mr. and Mrs. Patrick Welch, Boston; Joseph Kostrzewski, Orange, Tex.; John H. Dodds, Wyncote, Pa.; Elmer D. Smith, Adrian, Mich.; Philip J. Foley, Chicago; Mr. and Mrs. J. M. Collins, Mechanicsville, N. Y.; Thomas Reynolds, Princeton, N. J.; Wm. Sim, Cliftondale, Mass.; Ed Jenkins, Lenox, Mass.; Wm. Gray, Newport, R. I.; Geo. W. Kerr, Phila., Pa.; Mr. and Mrs. Paul Huebner, Phila.; E. H. Mann, Richmond, Ind.; Paul Berkowitz, repr. H. Bayersdorfer & Co., Phila.; H. J. Mitchell, Houston, Tex.; John Heermans, Princeton, N. J.; James Goodier, Princeton, N. J.

**For
Thanksgiving Day
Trade**

Everything you will need in Flowers, Plants and Supplies for all departments can be procured from the advertisers in HORTICULTURE.

They are the best houses in their various lines, and they use HORTICULTURE because it is THE medium through which they can best reach the SELECT TRADE.

BOUVARDIA

The double pink and white variety, stems 18 to 24 inches long. Something exceptionally fine. The best stock \$6.00 per 100.

THE LEO NIESSEN CO.

Wholesale Florists
1201-05 Race Street, PHILADELPHIA, PA.

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000...\$1.25. 50,000...\$3.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists
RICHMOND, IND.
Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
264 RANDOLPH ST., DETROIT, MICH.
Telephone 3860 Madison Square

WOODROW & MARKETOS WHOLESALE

Plantmen and Florists
37 and 39 West 28th St., NEW YORK



DAVID WELCH

EDWARD J. WELCH

WELCH'S Wholesale & Commission Florists FLORISTS' SUPPLIES

280-282 Devonshire Street, BOSTON, MASS.
Tel. Fort Hill 1964-1965

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.
If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere
262 B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Nov. 16		ST. LOUIS Nov. 6		PHILA. Nov. 14	
Roses						
Am. Beauty, Special	29.00	to 35.00	30.00	to 40.00	25.00	to 30.00
" " Fancy and Extra	17.00	to 20.00	20.00	to 30.00	15.50	to 20.00
" " No. 1 and culls	2.00	to 6.00	4.00	to 6.00	4.00	to 12.50
Russell, Hadley	2.00	to 10.00	4.00	to 8.00	2.00	to 15.00
Killarney, Hillingdon, Ward, Extra	4.00	to 6.00	4.00	to 6.00	4.00	to 8.00
" Ordinary	1.00	to 2.00	"	to 2.00	1.00	to 4.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 6.00	"	to 6.00	4.00	to 8.00
" Ordinary	1.00	to 2.00	"	to 2.00	1.00	to 4.00
Ophelia, Mock, Sunburst, Euler, Extra	3.00	to 6.00	4.00	to 6.00	4.00	to 8.00
" Ordinary	1.00	to 2.00	"	to 2.00	1.00	to 4.00
Carnations	1.00	to 2.50	1.00	to 2.00	1.00	to 3.00
Cattleyas	35.00	to 50.00	"	to 50.00	50.00	to 75.00
Dendrobium formosum	"	to 50.00	"	to 50.00	60.00	to 75.00
Lilies, Longiflorum	5.00	to 6.00	"	to 15.00	5.00	to 8.00
Lilies, Speciosum	"	to 5.00	"	to 6.00	"	to 6.00
Lily of the Valley	4.00	to 5.00	"	to 6.00	3.00	to 4.00
Snape dragon	1.00	to 3.00	"	to 3.00	1.00	to 4.00
Narcissi, Paper White	2.00	to 3.00	"	to 3.00	3.00	to 4.00
Chrysanthemums	4.00	to 10.00	5.00	to 25.00	2.00	to 10.00
Violets	.40	to .75	.25	to .35	.20	to .50
Marguerites	.50	to 1.00	"	to 1.00	.50	to 1.00
Gardenias	"	to 50.00	"	to 25.00	25.00	to 35.00
Adiantum	"	to 1.00	"	to 1.00	.75	to 1.00
Smilax	12.00	to 20.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	20.00	to 35.00	25.00	to 35.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists
568-570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

BOSTON The cold snap of the present week has had very little effect on volume of business or prices thus far. There is an abundance of everything in the market. Beauty roses are not in oversupply but there seem to be enough for all needs. Quality is good on everything. Calendulas, daisies, snapdragons, sweet peas, pansies and similar items which go to make up miscellaneous stock are becoming more plentiful and find as good a sale as usual at this early date.

BUFFALO The past week was chrysanthemum week. There was a heavy supply and the largest portion was the cleanups of the early varieties. The late varieties are coming in and the quality is excellent. Roses have been in heavy supply and the demand greatly fallen off. The same may be said of carnations, lilies and other stock. Saturday saw a fairly good cleanup, except on roses. Violets are good, but no special demand. There is about enough lily of the valley, etc., to supply the need and there is plenty of green of all kinds.

CHICAGO The unusual quiet that has hung over the Chicago market for the past two weeks is expected to be over soon. It is true the receipts of chrysanthemums will be heavy for several weeks to come, but it is expected that, with the coming of cold weather, the demand will be such as to move the stock. Roses are shortening up and not so many go to the street corners. Carnations are too plentiful to sell to the advantage of the grower and the best stock goes for two cents. Lower grades are often sold for anything they will bring. If the Thanksgiving sales are not good enough to make up for losses of the past month, then growers will be deeply disappointed. American Beauties are getting quite scarce, especially in the fancy lengths and a good Christmas supply is expected.

CINCINNATI Very heavy receipts, together with a steady but only fair demand has caused somewhat of a glut in the market. Prices are down to a low point and even at this level it is impossible to clean up all receipts. Chrysanthemums are in a supply that undoubtedly is as large as this market has ever known. All sizes and varieties are selling at prices below what they should bring. Roses are very plentiful and generally are excellent. Carnations are now more than sufficient for present needs. Lilies also are plentiful. Paper White narcissus and callas add to the general crowded condition of the market. Orchids, lily of the valley and sweet peas find a fair market.

NEW YORK The market in New York has been in a very desperate condition but all are hoping that the cold wave now prevailing may help to improve the situation. The wholesalers and growers have been hit hard. This is to be expected every year at the height of the chrysanthemum cut but this year has been exceptionally severe. Some of the retail stores seem satisfied, however, with the amount of



NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.

VALLEY

For Thanksgiving we will be well supplied with the famous "P-M" Brand of Valley.

SPECIAL - \$6.00
EXTRA - \$5.00

Plenty of Chrysanthemums
at \$10.00, \$12.50, \$15.00,
\$20.00 and \$25.00 per 100.
All colors.

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS QM V

	CINCINNATI Nov. 6	CHICAGO Nov. 13	BUFFALO Nov. 6	PITTSBURG October 31
Roses				
Am. Beauty, Special.....	30.00 to 35.00	30.00 to 40.00	20.00 to 25.00	25.00 to 30.00
" " Fancy and Extra.....	15.00 to 25.00	15.00 to 20.00	12.00 to 15.00	18.00 to 20.00
" " No. 1 and culls.....	4.00 to 10.00	3.00 to 8.00	4.00 to 10.00	6.00 to 10.00
Russell, Hadley.....	8.00 to 12.00	3.00 to 19.00	8.00 to 10.00	6.00 to 12.00
Killarney, Hillingdon, Ward, Extra Ord.	6.00 to 8.00	3.00 to 6.00	6.00 to 8.00	6.00 to 10.00
Arenburg, Radiance, Taft, Key, Ex. Ord.	3.00 to 5.00	2.00 to 4.00	3.00 to 6.00	4.00 to 6.00
Ophelia, Mock, Sunburst, Euler, Ex. Ord.	8.00 to 10.00	5.00 to 8.00	6.00 to 8.00	6.00 to 12.00
Carnations				
Cattleyas.....	50.00 to 60.00	50.00 to 60.00	50.00 to 60.00	50.00 to 75.00
Dendrobium formosum.....	10.00 to 12.00	7.00 to 10.00	8.00 to 12.00	7.00 to 10.00
Lilies, Longiflorum.....	10.00 to 12.00	7.00 to 10.00	8.00 to 12.00	7.00 to 10.00
Lilies, Speciosum.....	10.00 to 12.00	7.00 to 10.00	8.00 to 12.00	7.00 to 10.00
Lily of the Valley.....	10.00 to 12.00	7.00 to 10.00	8.00 to 12.00	7.00 to 10.00
Snapdragon.....	4.00 to 6.00	4.00 to 6.00	5.00 to 6.00	4.00 to 6.00
Narcissi, Paper White.....	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
Chrysanthemums.....	10.00 to 25.00	5.00 to 10.00	5.00 to 20.00	12.00 to 30.00
Violets.....	.35 to .60	.25 to .50	.50 to .60	.50 to .75
Marguerites.....	10.00 to 15.00	15.00 to 20.00	20.00 to 25.00	20.00 to 25.00
Gardenias.....	10.00 to 15.00	15.00 to 20.00	20.00 to 25.00	20.00 to 25.00
Adiantum.....	10.00 to 15.00	15.00 to 20.00	20.00 to 25.00	20.00 to 25.00
Smilax.....	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00 to 30.00	20.00 to 35.00	35.00 to 40.00	35.00 to 40.00

business coming in. They certainly cannot find fault with the cost of material. Roses have been of very excellent quality. White carnations are also fully up to the best winter standard. Cattleyas are shortening up. There are still some labiatas in sight and Percivalliana is coming in quite freely already and prices run easy on the ordinary quality of these. Trianaes on the other hand are very few and they bring big figures, even up to \$1 apiece for select blooms. Lilies are very abundant and cheap. Violets are still in limited supply and of only fair quality, with the exception of Gov. Herrick, of which some good bunches are seen. Chrysanthemums dominate everything. There are lots of paper white narcissi and calendulas, also some nice sweet peas and the first cuts of stevia.

PHILADELPHIA Roses and carnations moved a little better last week. The supply was not so redundant, prices held fairly firm, and there was not so much of a surplus.

The chrysanthemum was, of course, the thunderer, right, left and rear. Orchids are scarcer and going up. Cypridiums have made their appearance in limited quantity. Gardenias are also a little bit on the scarce side. Lily of the valley moves fairly well, but lilies go slow. Greens are moving a little better, although the autumn foliage still butts in on them and limits demand.

PITTSBURGH Business continues fair, although it is not sufficient to utilize the wealth of practically all kinds of flowers of fine quality, which continue to come in continuous flow, as it were. Chrysanthemums are fewer in quantity than other blooms. There are excessive quantities of splendid carnations and roses.

ST. LOUIS The past week have St. Louis a glut in all kinds of flowers. The wholesalers, in order to unload, had to make prices low. With the change at time of writing, to cooler weather

Continued on page 15

H. E. FROMENT
Wholesale Commission Florist
Choice Cut Flowers
New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 755
Farragut New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Telephone 5335, Farragut.
Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENTS SOLICITED
PHONE { 608 } MADISON SQ., NEW YORK
609

JOHN YOUNG & CO.
WHOLESALE FLORISTS
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.
Laurel, Hemlock, all Decorative Evergreens.
Tel. { 1583 } West St. 119 W. 28 St., New York
5883

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
8 Willoughby St., Brooklyn, N. Y

M. C. FORD
121 West 28th St., NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.
Wholesale Commission
READY FOR BUSINESS
49 WEST 28th ST. NEW YORK.

P. J. SMITH
WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
TELEPHONE { 2281 } FARRAGUT 131 West 28th St., NEW YORK CITY
3089

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US
Prices Right. Consignments Solicited. Telephone Connection

Centrally Located, The Hub of the Flower Market Section
CHARLES MILLANG
Wholesale Florist
55 and 57 W. 26th Street, - - NEW YORK
Telephone 2483 Farragut

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS
GARDENIAS, DAISIES, ROSES, CARNATIONS ON HAND
JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

BADGLEY & BISHOP, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones { 1664 } Madison Square
1665 CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Nov. 11 1916		First Half of Week beginning Nov. 13 1916	
American Beauty, Special	15.00	to 25.00	15.00	to 30.00
" " Fancy and Extra	10.00	to 15.00	10.00	to 15.00
" " No. 1 and culls	2.00	to 8.00	2.00	to 8.00
Russell, Hadley	2.00	to 10.00	2.00	to 10.00
Killarney, Hillingdon, Ward, Extra	2.00	to 5.00	2.00	to 5.00
" " Ordinary .....	.50	to 2.00	.50	to 2.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 6.00	3.00	to 6.00
" " Ordinary .....	.50	to 2.00	.50	to 2.00
Ophelia, Mock, Sunburst, Euler, Extra	3.00	to 6.00	3.00	to 6.00
" " Ordinary .....	.50	to 1.00	.50	to 1.00
Carnations	1.00	to 2.00	1.00	to 2.00

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—5532-3533 Madison Square

WE ARE WHOLESALE FLORISTS
We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for do-
ing our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.
101 West 28th Street, NEW YORK
Phones 2036, 2037, 558 Farragut

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
436 6th Avenue, Between 26th and 27th Sts., New York
Telephones: 797, 798, 799 Farragut
Consignments Solicited

WALTER R. SIEBRECHT CO.
Incorporated
Wholesale Commission Florists
Orchids, Gardenias and Many Unusual
Flowers of Quality
114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS
55-57 West 26th Street
Telephones, 13—8310 Madison Square
MAURICE L. GLASS, Treasurer
Consignments Solicited

BOXWOOD SPRAYS

our ability to supply. **Q Pound for pound more good Boxwood Sprays than you ever bought before.**
 Price f. o. b. Pittsburgh, Pa. 50 lb. \$7.50, 100 lb. \$15.00 less 10% on 100 lb. lots providing orders are placed at once.
 On quantity lots let us quote you a delivered price.

PITTSBURGH CUT FLOWER CO., 116-18 Seventh St., Pittsburgh, Pa.

VIOLETS

B. S. SLINN, Jr., 55-57 W. 26th St.
 NEW YORK

Established 1888

Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists
 110 West 28th St., New York
 We Solicit Consignments of New
 England Grown Novelties.

VIOLET GROWERS

Before making your shipping arrangements for the coming season please correspond with me. **I HANDLE VIOLETS ONLY** and give my entire time and attention to the interests of my violet growers.
 Write Now

CLARENCE SLINN

123 W. 28th Street NEW YORK

Beechwood Heights Nurseries

Importers and Growers of

ORCHIDS

Cut Flowers of All the Leading Varieties
 in their Season.

THOMAS YOUNG, Jr., Proprietor
 BOUND BROOK, N. J.

Send Flower Consignments to

L. B. NASON

Wholesale Florist

116 West 28th St., NEW YORK CITY

SHIPPING ORDERS CAREFULLY
 FILLED.

Correspondence solicited.
 Telephone, Farragut 2215.

Flower Market Reports

(Continued from page 77)

it is hoped that stock will curtail and the market become normal. The retailers had special sales, particularly in the downtown district, offering stock at "slaughter" prices. Can anyone tell us how to handle the glut and prevent the demoralization in prices?

Last week was one of the slowest of the year. Outside chrysanthemums still continue plentiful, because there has not yet been a frost sufficiently severe to kill them. Chrysanthemums rule the market to the detriment of all other stock. Sweet peas sell well, probably because they are scarce. Lily of the valley is more plentiful than for some time. Violets have not yet come into their own. Tip Top, Baby Doll, Sweetheart and other roses of the same type are reported to be increasing in favor among seminary girls who are large purchasers of corsage bouquets.

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

HERMAN WEISS WHOLESALE FLORIST

Can handle shipments of growers' product satisfactorily. Would like to hear from Growers of Daisies, etc., for the New York trade.

106 West 28th St., NEW YORK
 Tel. Farragut 3066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Nov. 11 1916		First Half of Week beginning Nov. 13 1916	
Cattleyas	20.00	to 75.00	20.00	to 75.00
Dendrobium formosum	.....	to 50.00	.....	to 50.00
Lilies	3.00	to 5.00	2.00	to 4.00
Lily of the Valley	3.00	to 5.00	2.00	to 5.00
Snape dragon	1.00	to 2.00	1.00	to 2.00
Chrysanthemums	4.00	to 25.00	4.00	to 25.00
Violets	.25	to .40	.25	to .60
Gardenias	25.00	to 40.00	25.00	to 40.00
Adiantum	.25	to .50	.25	to .90
Smilax	8.00	to 15.00	8.00	to 15.00
Asparagus Plumosus, & Spreng (100 bunches)	10.00	to 25.00	10.00	to 25.00

ORCHIDS - - GARDENIAS

HEADQUARTERS for the entire output of the

BEECHWOOD HEIGHTS NURSERIES, of Bound Brook, N. J.

PAUL MECONI — Wholesale Florist — NEW YORK

Telephone Nos. 3864 and 8364 Madison Square

57 WEST 26th STREET

J. J. COAN, INC.

115 WEST 25TH STREET
 New York

Tel., Farragut 5413-5801

EVERYTHING IN CUT FLOWERS
 CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square
 BOSTON, MASS.

Telephone 2618-2617-2616, Main.

William Stuart Allen Co.

Commission Merchants in

CUT FLOWERS

53 West 28th Street, NEW YORK
 Telephone—356 Madison Square.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK
 Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of
 Good Stock Solicited

111 W. 28th St., - NEW YORK

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street
 167 & 3058 Farragut NEW YORK

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display Advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Apline Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

AUCTION SALES

MacNiff Horticultural Co., New York City.
Azalea Indica
For page see List of Advertisers.

Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.

Johnson & Millang, Inc., New York City.
Bulbs and Boxwood at Auction.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.
August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price-list.
JULIUS ROEHR'S CO., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

Mrs. J. A. Peterson (New), 21 in. pots, \$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHR'S CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.
King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Hitchings & Co., New York City.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

August Rolker & Sons, New York City.
For page see List of Advertisers.

BOX TREES—Standards, Pyramids and Bush. Price list on demand.
JULIUS ROEHR'S CO., Rutherford, N. J.

BOXWOOD SPRAYS

Pittsburgh Cut Flower Co., Pittsburgh, Pa.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
Lilium Harrisii, Nareissus, Hyacinth and Tulip Bulbs.
For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
French and Dutch Bulbs.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
French, Japan, Holland and Cold Storage Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

The MacNiff Horticultural Co.,
Holland Grown Bulbs,
New York City.
For page see List of Advertisers.

Henry D. Michell Co., Philadelphia, Pa.
Lilium Formosum.
For page see List of Advertisers.

Joseph Brock & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.
For page see List of Advertisers.

Fotter, Fiske, Rawson Co., Boston, Mass.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

WESTERBEEK & KLYN,
SASSENHEIM, HOLLAND.
Write for prices on all kinds of bulbs to 14 Stone St., New York.

CARNATIONS

Cottage Gardens Co., Inc., Queens, N. Y.
New Carnation Cottage Maid.
For page see List of Advertisers.

F. Dörner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
Pompon Chrysanthemums.
For page see List of Advertisers.

CHRYSANTHEMUMS—Continued

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Or Frank Dinda, Farmingdale, N. Y.
Chrysanthemum—Alex Guttman.
For page see List of Advertisers.

Chrysanthemum Stock Plants: Early Frost, Early Snow, Halliday, Razer, Bonaffon, Enguehard, Oeonto, 4c. each. Cash please. FRANK LEITH & SON, Haverhill, Mass.

CINERARIAS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

ORDERS BOOKED ANY TIME

For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

For Plants and Cuttings get our prices before ordering elsewhere. Our guarantee with every order. Write for a copy of our latest Plant Bulletin.

Asparagus	Cyclamen	Primula
Begonias	Daisies	Smilax
Bulbs	Dracena	Snapdragons
Calceolaria	Ferns	Violets
Calandula	Geraniums	
Cineraria	Hydrangeas	

S. S. PENNOCK-MEEHAN COMPANY.
Philadelphia, 1608-1612 Ludlow St.
Baltimore, Franklin and St. Paul St.
Washington, D. C., 1216 H St., N. W.
New York, 117 W. 28th St.

FERNS

A. M. Davenport, Watertown, Mass.
Small Ferns for Dishes.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co., White Marsh, Maryland.
Boston Ferns.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

Joseph Heacock Co., Wyncote, Pa.

For List of Advertisers See Page 659

FERTILIZERS

Pulverized Manure Co., New York City.
Wizard Brand Co., New York City.

FLORISTS' PLANT STOCK

Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums, S. A. Nutt, 2 in., \$2.00 per hundred. \$18.00 per thousand; rooted cuttings, \$12.00 per thousand. Cash. Also few white cuttings and 2 in. W. E. ALLEN, Leominster, Mass.

GLADIOLI

John Lewis Childs, Flowerfield, L. I., N. Y.
New Catalogue.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

Glass 6x8, 8x10, 10x12, 10x14, \$1.65 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish goods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset, Boston.
Pecky Cypress.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

Hitchings & Co., New York City.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

John C. Moninger Co., Chicago, Ill.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Boston.

S. Jacobs & Sons, Brooklyn, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

HOSE

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

HOT BED SASH

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co., Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset, Mass.

HYDRANGEAS

Anglin & Walsh Co., Williamsbridge, N. Y.
Otaksa and Avalanche.
For page see List of Advertisers.

INSECTICIDES

Hammond's Paint & Slug Shot Works, Beacon, N. Y.

Hammond's Thrip Juice No. 2.
For page see List of Advertisers.

Aphine Manufacturing Co., Madison, N. J.
Aphine.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Inap. Soap Spray.
For page see List of Advertisers.

B. G. Pratt Co., New York City.
Scalecide.

KENTIA SEED

Langdon & Co., New York City.
For page see List of Advertisers.

LILY BULBS

Langdon & Co., New York City.
H. J. Schuchman & Co., New York City.
For page see List of Advertisers.

M. H. Hadden & Co., New York City.
Lily Bulbs.

For page see List of Advertisers.

R. M. Wells & Co., New York City.
For page see List of Advertisers.

M. H. Hadden & Co., New York City.
Lilium Hybridum Bulbs.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Special Offer Japan Lily Bulbs.
For page see List of Advertisers.

Henry F. Mitchell Co., Philadelphia, Pa.
Lilium Formosum Bulbs.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Lilium Giganteum.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hohmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

Lochner & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Hatherso, Pa.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

R. & J. Farquhar & Co., Boston, Mass.
Trees.
For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Robbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Roker & Sons, New York City.
For page see List of Advertisers.

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

ORCHID FLOWERS

J. S. McManis, New York City, N. Y.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

ORCHID PLANTS

Beechwood Heights Nurseries,
Bound Brook, N. J.
Importers and Growers of Orchids.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Francisco Delgado Q., Bogota, Colombia.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

PALMS

Joseph Heacock Co., Wyncote, Pa.

PANSIES

H. P. Beers, Greens Farm, Conn.
Giant Pansies, Seeds and Plants.
For page see List of Advertisers.

William Sim, Cliftondale, Mass.
For page see List of Advertisers.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.

PIPE AND FITTINGS.

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

PRIMULAS

William Sim, Cliftondale, Mass.
Sim's Hybrid Yellow Polyanthus.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Bay State Nurseries, North Andover, Mass.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Hardy Roses.
For page see List of Advertisers.

ROSES—Continued

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

SASH

Standard Hot Bed Sash with cross bar,
80c. each; lots of 25 and over, 75c. each.
Satisfaction guaranteed or money refunded.
Glass 6 x 8, 8 x 10, 10 x 12 or 10 x 14, \$1.65
per box of 50 sq. ft. C. N. ROBINSON &
BRO., Dept. 29, Baltimore, Md.

SCALECIDE

B. G. Pratt Co., New York City.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Shamrock Seed
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
Gold Medal Cyclamen Seed

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

Amt. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Seeds, Selected Strains.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
For page see List of Advertisers.

Roman J. Irwin, New York City.
New Crop Florists' Seeds.
For page see List of Advertisers.

SEEDS—Continued

S. D. Woodruff & Sons, New York City and
Orange, Conn.
Garden Seeds.

For page see List of Advertisers.

Fottler, Fisk, Rawson Co., Boston, Mass.
Seeds for the Florist

SHAMROCK SEED

Arthur T. Boddington, New York City.
For page see List of Advertisers.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VIOLETS

Clarence Slinn, 123 West 28th St., New York
City.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

For List of Advertisers See Page 659

WHOLESALE FLORISTS
Buffalo, N. Y.

William F. Kasting Co., 568-570 Washington St.
For page see List of Advertisers.

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 264-266 Randolph St.
For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
For page see List of Advertisers.

Hentz & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West 28th St.
For page see List of Advertisers.

Traendly & Schenck, 436 6th Ave., between 26th and 27th Sts.
For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

Paul Meconi, 57 West 28th St.
For page see List of Advertisers.

Woodrow & Marketos, 37 and 39 W. 28th St.
For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 53 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Guttman & Raynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunther Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

George W. Crawbuck Co., 57 West 28th St.
For page see List of Advertisers.

William Stuart Allen Co., 53 West 28th St.
For page see List of Advertisers.

WHOLESALE FLORISTS
New York—Continued

Clarence Slinn, 123 West 28th St.
For page see List of Advertisers.

B. S. Slinn, Jr., 55-57 West 26th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ransstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1068-20 Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 147 Summer St., Boston.

HELP WANTED

WANTED a young man of neat appearance for general greenhouse work and help at designing. State wages and full particulars. References required. Address P. M. OLM, Bath, Maine.

WANTED young man, good greenhouse assistant with general knowledge of pot plants of every description. State references and wages expected to start with. Progressive place for ambitious young man. Address POT PLANTS, care HORTICULTURE, Boston.

SITUATIONS WANTED

Gardener with first-class references, 30 years old, married, no children. Experience in and outdoors on well-known private places. Address "R. S.," care HORTICULTURE, Boston.

SITUATION WANTED by single man, 17 years' experience on private estates. No trifles answered. "G. D.," care HORTICULTURE, Boston.

THE NUT-GROWER

The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

New Offers In This Issue**CHOICE FLOWERING AND FOLIAGE PLANTS.**

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

HERBACEOUS CHINESE PEONY. LORD KITCHENER.

F. J. Grootendorst & Sons, New York City.
For page see List of Advertisers.

HOT HOUSE GRAPEVINES.

R. & J. Parquhar & Co., Boston, Mass.
For page see List of Advertisers.

MICHELL'S BULBS.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

NEW GLADIOLUS CATALOGUE.

John Lewis Childs, Inc., Flowerfield, L. I., N. Y.
For page see List of Advertisers.

TEN THOUSAND AZALEA INDICA AT AUCTION.

The MacNiff Horticultural Co., New York City.
For page see List of Advertisers.

WHOLESALE FLORIST

L. B. Nason, 116 West 28th St., New York City.
For page see List of Advertisers.

TREES, SHRUBS, VINES and HERBACEOUS PERENNIALS

By JOHN KIRKEGAARD

Formerly Assistant to Director of the Royal Botanical Gardens, Copenhagen, Denmark. Latterly Twenty Years in American Forestry and Botanical Work.

Assisted by DR. H. T. FERNALD,

Professor of Entomology Massachusetts Agricultural College and Entomologist, Massachusetts Agricultural Experiment Station.

and PROF. E. A. WHITE,

Professor of Floriculture, New York State College of Agriculture at Cornell University.

A Great Book A Beautiful Book
A Comprehensive Book
A Practical Book By Practical Men
There Is No Other Book Like It

410 Pages. Planting Plans. Tabular Description and Classification of Species. 50 Full-Page Illustrations in Tone. Authoritative Articles on Many Subjects.

New Edition

BEAUTIFULLY BOUND IN CLOTH

Price only \$2.50 net. Mailing

Price, \$2.71. Money-Back

Guarantee

Order it from HORTICULTURE

147 Summer St., Boston

In writing to Advertisers kindly mention Horticulture

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago**KING CONSTRUCTION COMPANY, North Tonawanda, N. Y.****GREENHOUSES****We Claim Maximum Strength and Minimum Shadow. Investigate**

BOSTON OFFICE: 113 State St., Boston, Mass.

PHILADELPHIA OFFICE: Harrison Building, 15th and Market Sts., Philadelphia, Pa.

POT FAMINE HERE.

A recently published item stating there was a "pot famine" coming, was correct as far as it went; but if the manufacturers of flower pots had their say I believe they would have said "pot famine here." I hear of one pottery facing an 8-hour day, with no reduction in weekly wage—with Saturday afternoon off; another facing their third 10 per cent raise; another with lack of coal, due to freight congestion; another being delayed in delivery of a new boiler; another had to change to coal as fuel because of prohibitive cost of natural gas, and several others of like nature; each are having their own new troubles in addition to their old troubles of coal, labor and material costs. The munition factories have taken all available labor and the demand for machinery has of course increased the costs of machine supplies.

The whole trouble is this—labor being scarce during the past spring and summer made it impossible for the pottery to make up the necessary stock usually made during the spring and summer of former years and with no stock on hand when the season opened, the demand for pots, with a depleted working force working as it were from hand to mouth, orders piling up, men quitting, almost daily notice of advancing prices of material with continual demand by employees for more money and less working hours—it has come to such a condition of affairs that one potter says

he feels as though he is no longer "Boss" and that he must shake hands every time he goes through the factory, take his hat off and be extra nice to all employees and, between visiting trade, pleading for additional time for delivery of orders, chasing railroad freight agents for delayed shipments, looking for new labor, and then trying to figure out that his books show balance on the right side, the potter certainly has his hands full.

However, I am sure that all the potteries of the country are well equipped and willing to do more business; the labor situation and coal are the only doubtful reasons why you have to wait for pots.

P. M. READ, Sec'y,
Pot Makers' Credit Association

PERSONAL.

S. J. Reuter, the veteran florist of Westerly, R. I., who has been ill for some time, is reported to be very low.

Edward J. Norman, Jr., formerly foreman on the Alfred G. Vanderbilt estate, has taken a position as landscape gardener with A. N. Pierson, Inc., Cromwell, Ct.

Assemblyman Arthur Cowee, who led the ticket, practically had a walk-away in his race for re-election to the Assembly from the Second District, Rensselaer County, N. Y., winning by the handsome plurality of 2,031.

Carroll N. Bond, a Brattleboro, Vt., florist, met with an accident recently which cost him the loss of one eye. Mr. Bond was clipping a wire with some cutters when one of the wires sprung back and struck him in the eye. It became necessary to remove the eye in order not to impair the sight of the other eye.

**GREENHOUSES BUILDING OR CON-
TEMPLATED.**

South Bend, Ind.—Adam J. Beehler, one house.

Chestnut Hill, Mass.—L. K. Liggett, one house.

Pawtucket, R. I.—Wm. Blease, Newport avenue, house 20x50.

Royal Oak, Mich.—J. T. Wolcott, range of houses in the spring.

Austin, Minn.—W. T. Hanscome, 305 West Maple street, house 28x75.

Ansonia, Conn.—J. O. Raab, 420 North Main street, house 14x27.

Columbus, O.—Mrs. A. J. Allwood, River road, two vegetable houses.

Jamaica Plain, Mass.—Edward A. Clark, range of King houses completed.

St. Louis, Mo.—Joseph Haemmerl, Kings Highway, two houses completed.

NEW CORPORATION.

Madison, N. J.—The Noe & Ruzicka Co. Inc. Incorporators, L. A. Noe, Jos. F. Ruzicka. Capital \$75,000. The above firm purchased the plant of the Brant-Hentz Floral Co. and after some changes will continue to grow roses. Mr. Brant is leaving Madison to devote his time to the extensive plant of Brant Bros. at Utica, N. Y.

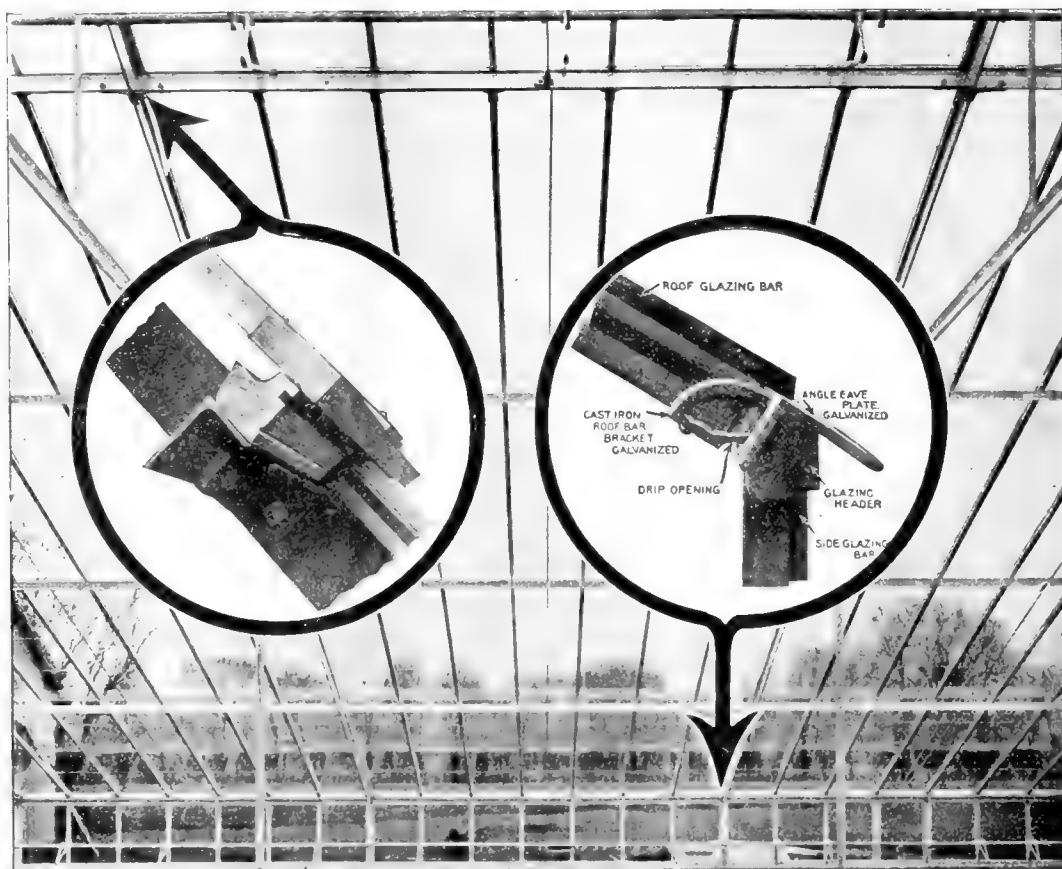
**STANDARD FLOWER
POTS**

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST

29th & M Sts., Washington, D. C.

The Florists Hall Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address JOHN G. ESTER, Sec., Saddle River, N. J.



Note the way the cypress vent header is supported by the purlin and the way the purlin is secured to the rafter by a good husky fitting.

Whether solid glazing or side sash are used, we always use a cypress member beneath the plate. The sash are hinged to it. We will gladly tell you why other methods are not what they are cracked up to be.

Some Differing Differences In Our Wide Spaced House

BY wide spaced, we mean that the distance between rafters is 12 feet 6 inches instead of the old 8 feet 4 inches.

There are several concerns who have now followed our lead in this wide space, but none of them construct their construction to take care of the shift of strains the way we do.

None of them feel they can safely use glazing with 20 inch glass. They stick to 16 inch. So they have nine bars between rafters, while we need only seven.

If there was the least doubt about the practicalness of our method of using 20 inch glazing; the growers who have given it several years test certainly would not have built additional houses as they have year after year.

Surely a careful, surely sure man like L. B. Coddingdon wouldn't build four houses this year each 61 feet x 500 feet, if those four we built for him several years ago were not entirely satisfactory.

Knowing full well the additional strain put on the extra length purlin used in the wide spacing, we designed a special long extended knee fitting that

bolts to the rafter and the purlin, giving it the additional supporting strength that our engineers proved was needed.

Then instead of using excessively heavy purlins to prevent a sag downward towards the eaves, we put in our intermediate pony rafter between the vent purlin and ridge and then from it ran a sag rod to the eave; anchoring each purlin to it. You can see it on the fourth spacing above.

When it comes to making a decision about whether you will buy our house or some other; don't allow the argument of weight or quantity of iron to over-influence you.

It is not so much how much iron, as how that much is used.

For example, a wooden automobile wheel looks a lot stronger than the wire ones; but tests prove that one is exactly as strong as the other.

Our Supply Book goes thoroughly into every construction point of our construction. Send for it.

You know we go anywhere for business. Or to talk business.

Hitchings and Company

NEW YORK
1170 Broadway

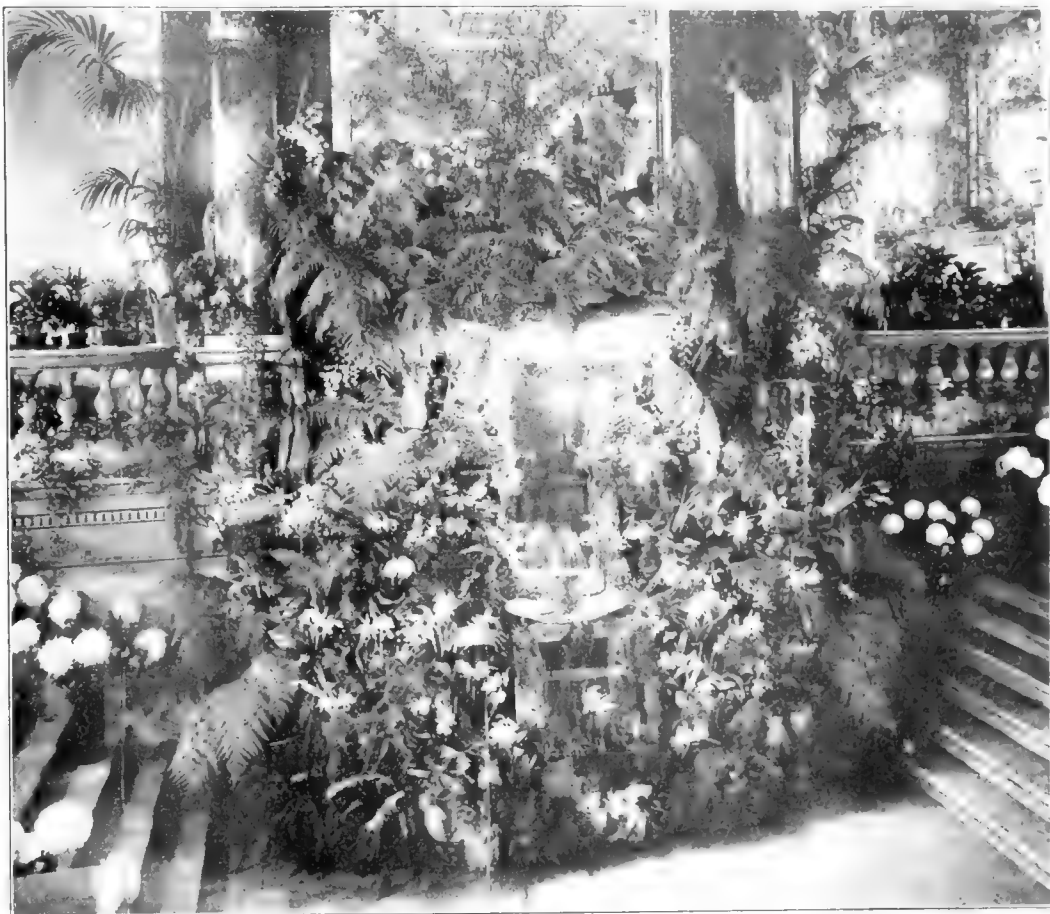
BOSTON
49 Federal Street

PHILADELPHIA
40 S. 15th Street

General Offices and Factory, Elizabeth, N. J.

Vol. XXIV
No. 22
NOV. 25
1916

HORTICULTURE



Orchid Decoration at Philadelphia

By William Kleinheinz, Supt. Widener Estate
Described in November 11 issue

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription \$1.00

1917

CHRYSANTHEMUM NOVELTIES

1917

Our Novelties for 1917 are the best we have ever had. The finest of the year in the large flowering type will be —

LOUISA POCKETT

Mr. Pockett, who raised both varieties says that Louisa Pockett will easily displace Wm. Turner as the best white in cultivation. From our knowledge of it I can endorse this statement.

In 1906 I distributed Beatrice May which remained our standard white for years. Five years later in 1911 I distributed Wm. Turner and now after a lapse of five years, in 1917 I will distribute this sensational white that surpasses all others—**LOUISA POCKETT**.

This is a seedling from Turner but a larger flower and heavier grower.

Other splendid Novelties for 1917 will be:

NAG-IR-ROC; W. H. WAITE; PRES. JOHN EVERITT; OCTOBER KING and BOL D'OR. January delivery, 2½ in. pots, \$16.00 Dozen; \$100.00 per 100.

We will also distribute Schaffer's
PHENOMENAL JAPANESE ANEMONES

And our new **SINGLES** for 1917, are as usual
THE FINEST IN THE WORLD

1917

CHARLES H. TOTTY**MADISON, N. J.**

1917

CARNATIONS**Field Grown**

ENCHANTRESS SUPREME, EUREKA
WHITE WONDER, PINK DELIGHT.

\$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL,
MATCHLESS.

\$7.00 per 100; \$55.00 per 1000.

LADY NORTHCLIFF, PINK WINNOR,
WHITE WINNOR.

\$6.00 per 100; \$50.00 per 1000.

WOOD BROS., FISHKILL,
N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ELMER D. SMITH & CO.
CHRYSANTHEMUMS

Ask for Catalogue

ADRIAN, - - - MICH.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. - - - BOSTON
Telephone Main 96.

ROBERT CRAIG CO.
ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

HYDRANGEA**OTAKSA & AVALANCHE**

Field grown plants, ready for 6-inch pots;
\$14.00 per 100.

ANGLIN & WALSH CO.
W. Liamsbridge, N. Y.

BOBBINK & ATKINS

**Nurserymen, Florists
and Planters**

RUTHERFORD, NEW JERSEY

CHRYSANTHEMUM
ALEX. GUTTMAN

The best Early Lavender-Pink in the
Market. Blooms have been selling for \$6.00
per dozen since middle of September. Stock
Plants, 75c each, \$7.50 per doz.

GUTTMAN & RAYNOR, INC.

Wholesale Florists

101 West 28th St., New York, or **FRANK
DINDA**, Farmingdale, N. Y.

**In Writing Advertisers
Kindly Mention
HORTICULTURE**

LEON RENAULT'S NURSERY

21 Rue du Lievre d'Or, Orleans, France

INTRODUCES

A MARVELOUS NOVELTY

OF

A Herbaceous Chinese Peony

(*Paeonia chinensis*)

The Lord Kitchener

A most beautiful flower, well filled out,
of a brilliant cherry-red color with a
dazzling hue; a splendid keeper, a vigor-
ous grower, very free flowering and the
earliest of all Chinese peonies.

Price f. o. b. Orleans: \$1.25 each; \$11.00
per dozen; \$70.00 per hundred.

SOLE AGENTS:

F. J. GROOTENDORST & SONS

Room 1101

10 Broadway, NEW YORK

Send us a list of your wants in lining out
stock and let us give you quotations.

A. N. Pierson, Inc.
CROMWELL, CONN.

Bedding Plants and Roses

GERANIUMS

We have the largest stock, in better condition than we have ever had, and are in a position to take care of your orders in due shape. Alph. Ricard, Beaute Poitevine, Jean Viaud, Edmond Blanc and Scarlet Bedder, 2 in. at \$2.00 per 100, \$20.00 per 1000; 3-in. at \$3.00 per 100, \$30.00 per 1000. S. A. Nutt, Gen. Grant, Mad. Buchner, Mad. Rechner, Jean Oberlee, Abbie Schaffer and E. G. Trego, etc., 2 in. at \$2.00 per 100, \$18.50 per 1000; 3 in. at \$3.00 per 100, \$30.00 per 1000. Rooted Cuttings, 75 cents per 100 (post paid); \$5.00 per 1000 express not prepaid).

COLEUS, 10 varieties, including Golden Bedder and Verschaffeltii, Heliotrope Cheftain and Ageratum blue and white, each.

	2-in. 100	2-in. 1000	3-in. 100	3-in. 1000		2-in. 100	2-in. 1000	3-in. 100	3-in. 1000
ACALYPHA	\$2.50	\$20.00	\$3.50	\$30.00	LEMON VERBENAS	\$2.00	\$18.50	\$3.00	\$25.00
ALTERNANTHERAS	2.00	18.50	3.00	25.00	LANTANAS, 10 varieties	2.00	18.50	3.00	25.00
AGERATUM	2.00	18.50	3.00	25.00	MOONVINES, White and Blue	2.00	18.50	3.00	25.00
ASPARAGUS SPRENGERI			5.00		PARLOR IVY, S. Scandens	2.00	18.50	3.00	25.00
BEGONIAS, Vernon	2.00	18.50	3.00	25.00	PETUNIAS, Double and Single	2.00	18.50	3.00	25.00
COLEUS	2.00	18.50	3.00	25.00	Mixed	2.00	18.50	3.00	25.00
CUPHEA	2.00	18.50	3.00	25.00	POMPON CHRYSANTHEMUMS	2.00	18.50	3.00	25.00
HARDY ENGLISH IVY	2.00	18.50	3.00	25.00	SALVIA, Bonfire and Zurich	2.00	18.50	3.00	25.00
HELIOTROPE	2.00	18.50	3.00	25.00	SWAINSONA, White	2.00	18.50	3.00	25.00

CASH WITH ORDERS.

R. VINCENT, Jr., & SONS CO.,
**WHITE MARSH,
MD.**

LILY OF THE VALLEY PIPS

Danish and German Stock
**Booking Orders now for
1916 Crop**
LOECHNER & CO., Inc. - - - 11 Warren St., New York

OUR MOTTO: THE BEST THE MARKET AFFORDS

**ORDERS TAKEN NOW
FOR 1916 CROP**

Valley

**GERMAN, SWEDISH
AND DUTCH PIPS**
CHAS. SCHWAKE & CO., Inc.
90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....719	Crawbuck, Geo.....713	Guttman & Ray- nor.....690-712	Kroeschell Bros.....718	Pierston, F. R.....706	Smith, P. J.....712
Albany Cut Flower Ex.....712	Dards.....706	Hall Association.....719	Kuebler, W. H.....712	Pittsburgh Cut Flower Co.....713	Smith & Fetters.....707
Allen, J. K.....713	Davenport, A. M.....692	Hammond Paint & Slug Shot Works.....703	Lager & Hurrell.....699	Pochlmann Bros. Co.....710	Smith, W. & T. Nursery Co.....701
Allen, Wm. Stu- art.....713	Delgado Q. Fran- cisco.....692	Hart, Geo. B.....712	Lange, H. F. A.....707	Pratt, B. G. Co.....703	Smyth, Wm. J.....707
American Bulb Co.....705	Dinda, Frank.....690	Heacock Co., Joseph.....700	Leonard Seed Co.....705	Pulverized Ma- nure Co.....703	Stearns Lumber Co., A. T.....719
Anderson, S. A.....707	Dorner, F. & Sons Co.....690	Henderson, A. & Co.....705	Lochner & Co.....691	Randall's Flower Shop.....707	Stump, G. E. M.....706
Anglin & Walsh.....690	Dreer, H. A.....718	Hentz & Nash.....712	Lord & Burnham Co.....720	Reed & Keller.....710	Thorburn, J. M. & Co.....705
Aphine Mfg. Co.....703	Dunlop, John H.....707	Hess & Swoboda.....707	McHutchison & Co.....699	Riedel & Meyer.....712	Totty, Chas. H.....690
Badgley & Bishop, Inc.....712	Dysart, Robert.....690	Hews, A. H. & Co.....718	McManus, Jas.....712	Reid, Edw.....710	Tracy & Schneck.....712
Barrows & Son.....692	Eastern Chemical Co.....703	Hill, E. G. Co.....710	McConnell, Alex.....706	Reiters.....707	United Cut Flower Co.....713
Bayersdorfer, H. Co.....709	Edwards Folding Box Co.....710	Hill, D. Nursery Co.....701	Marshall, W. E. Co.....705	Robinson, H. M. & Co.....713	Valentine, J. A.....706
Bay State Nur- series.....701	Elliott Auction Co.....692	Holland Nurser- ies.....701	Meconi, Paul.....713	Robins, J. Co.....699	Vanheerde, L.....692-701
Beechwood H'ghts Nurseries.....713	Ernest, W. H.....718	Holm & Olson.....707	Metropolitan Ma- terial Co.....718-719	Rochers, J. Co.....699	Vincent, R., Jr. & Sons Co.....691
Bobbin & At- kins.....690	Evans, J. A. Co.....719	Howard & Smith.....706	Michell, H. F. Co.....704	Roland, Thomas.....707	Wants, For Sale.....717
Boddington, A. T.....704	Eyres.....707	Irwin, R. J.....705	Michigan Cut Flower Ex.....710	Roiker, A. & Sons.....692	Ward, R. M. & Co.....692
Bolgiano & Son.....705	Farquhar, R. & J. Co.....705	Jacobus, S. & Sons.....718	Millang, Chas.....712	Rosery, The.....706	Weber, F. C.....707
Breck, J. & Sons.....705	Foley Mfg. Co.....719	Johnson & Mil- lang.....702	Murray, Samuel.....706	Schling, Max.....706	Welch, Herman.....713
Breitmeyer's, J. Sons.....706	Ford, W. P.....712	Kastling, W. F. Co.....710	Nason, L. B.....713	Schwake, Chas. Co.....691	Welch's.....710
Budlong, J. A.....710	Ford, M. C.....712	Kaufback, E. D. & Son.....692	National Nur- seryman.....701	Sharp, Partridge & Co.....719	Welch Bros. Co.....710
Bunyard, A. T.....706	Fottler, Fiske, Rawson Co.....704	Keller, J. B. Sons.....706	Nicotine Mfg. Co.....703	Sheridan, W. F.....712	Welch, Pat.....713
Burnett Bros.....705	Froment, H. E.....712	Kelway & Son.....705	Niessen, Leo Co.....710	Siebrecht, Geo. C.....712	Wood Bros.....690
Burpee, W. A. & Co.....705	Galvin, Thos. F.....707	Kerr, the Florist.....707	Nut Grover.....717	Siebrecht, W. R.....712	Woodrow & Mar- ketos.....710
Carter's Tested Seeds, Inc.....704	Graham, Adam & Son.....707	Kervan Co.....712	Overkerk, P. J.....701	Siggers & Sig- gers.....719	Woodruff, S. D. & Sons.....705
Childs, John Lewis.....704	Gray, Thos. J. Co.....705	King Construc- tion Co.....719	Palmer, W. J. & Son.....707	Sim, Wm.....692	Young, John & Co.....712
Clarke's, D., Sons.....706	Gasser Co., J. M.....707	Knoble Bros.....707	Park Floral Co.....706	Sklodsky, S. S. & Co.....705	Young, Thomas Jr.....713
Coan, J. J.....713	Grootendorst, F. J. & Sons.....690	Koloos, A. & Co. 692-701	Parshelsky Bros.....719	Shinn, Clarence.....713	Young & Nugent.....706
Cooke, Geo. H.....706	Gude Bros. Co.....706	Kramer, F. H.....707	Pennock Mehan Co.....711	Smith, Elmer D. & Co.....690	Zachuck Ant. Co.....705
Cowee, W. J.....710	Gunther Bros.....713		Penn the Florist.....706		
Craig, Robt. Co.....690			Pierce Co., F. O.....719		
			Pierson, A. N.....690		

**FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 714, 715, 716, 717**



Sim's Hybrid Yellow Polyanthus

(Giant English Primrose)

GOLD MEDAL AWARDED AT PHILADELPHIA

This is the best selling novelty in years. They make charming pot plants for Easter and are indispensable for cutting. They bloom from December to May. Now is the time to pot up for spring trade or plant in benches for cut flowers.

Plants suitable for 5 and 6-in. pots.

PRICES

100, \$10; 500, \$40; 1000, \$75: for planting out for cut flowers
100, \$12; 1000, \$100: 500 at the 1000 rate

SIM'S GOLD MEDAL PANSY plants for wintering flowering,
100, \$4; 1000, \$30

WILLIAM SIM, CLIFTONDALE,
MASS.

A. KOLOOS & CO.

JUST RECEIVED from our Holland Nurseries per S. S. RYNDAM a large shipment of LILACS, DEUTZIAS, WEIGELAS, ALMONDS, GLYCINE, all pot grown, A. 1 quality ready for forcing.

Write for quotations at once to our NEW YORK address

MR. L. VANHEERDE, c/o Maltus & Ware, 14 Stone St., NEW YORK

EXPORT NURSERIES

5,000 AZALEA INDICA

JUST ARRIVED IN GOOD CONDITION WELL BUDDED

Vervaeeneana, Madam Petrick, Simon Mardner,
Deutsche Perle, Mme. Romain De Smet,
Pres. Oswald de Kerckhove

12 to 14.....	\$0.70 each	16 to 18.....	\$1.00 each
14 to 16.....	.85 each	18 to 20.....	1.50 each
20 to 24.....			\$2.00 each

Cash or satisfactory references.

Above prices hold to December 2d only

E. D. KAULBACK & SON, MALDEN
MASS.

Hardy Roses

New York State, two-year field-grown. Can furnish so long as unsold. THIS FALL or NEXT SPRING Delivery, in own-rooted stock: GRUSS an TEPLITZ hybrid tea, HERMOSA and CLIMBING WHITE DOROTHY, all at \$12.50 the 100; EXCELSA, the improved Crimson Rambler, at \$10 the 100 f. o. b. New York. JAPAN BAMBOO CANES, green dyed, 3 ft. length, per bale of 2500. \$12.50; natural, 6 ft. length, per bale of 1000, \$7.50.

AUGUST RÖLKER & SONS, 51 BARCLAY STREET, New York
or P. O. BOX 752

ENGLISH IVIES

3 in., \$8.00 per 100; 3½ in., \$10.00 per 100; 4 in., \$12.00 per 100

SMALL FERNS FOR DISHES

Plenty of Holly and Aspidium 2¼ in., \$4.00 per 100; \$35.00 per 1000. Adiantum rhodophyllum and cuneatum, 3½ in., very strong plants, \$8.00 per 100.

A. M. DAVENPORT, Watertown, Mass.

OLDEST AUCTION HOUSE

IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co.
42 Vesey St., New York

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.
WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.
ROOSEVELTS—\$5 per 100, \$40 per 1000.
BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

LILY BULBS

RALPH M. WARD & CO.
71 MURRAY ST., NEW YORK

ORCHIDS

Francisco Delgado Q.

Orchid Collector

Solicits orders for shipments of Orchids,
Prices quoted upon application.

BOGOTA (Chapinero) COLOMBIA

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE

"If vain our toil, we ought to blame the culture, not the soil."—*19c.*

Cyclamen

Keep the house fairly moist by damping down the walks night and morning. Place the plants well up to the glass so they will grow stocky. Do not syringe over head and use the watering pot in lieu of the hose. Look over the watering as early in the day as possible as they should become dry by night. The cyclamen does nicely in a little over 50 or 55 degrees at night. Additional greenhouse space will soon be at liberty as chrysanthemums are cut out. Cyclamen in two or three inch pots will still do in frames for a few weeks, if well looked after and protected on severe nights. Plants that are fairly well pot-bound and in good health will stand liquid once a week from now on. See that the hole in the bottom of the pot is kept clear.

Flowering Plants for Christmas

Ventilate freely, but beware of cold, piercing air striking flowering plants as it will prove a quick despoiler of their beauty. With the increased fire heat and sudden bursts of bright sunshine now and then pot plants will want liberal watering. Give all that show proper expansion of bloom cooler quarters, not necessarily well-lighted. When treated this way they will finish up in fine shape and will handle better in every respect than if kept in strong heat up to the last. With Christmas only about 25 or 30 days away much can be accomplished in properly preparing stock for the occasion. All plants that are a little behind, but justify a hope that they can be brought in on time will stand a week of hard forcing, anywhere from 60 to 70 degrees at night according to the kind of plants. So be up and doing, for every day counts now.

Hybrid Perpetual Roses for Easter

If you have not grown your own stock in pots all summer—which is the best—go to some near-by nurseryman and get a supply without delay. Well-grown hybrid perpetuals in pots will attract many buyers for this spring holiday and now is the time to begin on this line. When potting them use from a 7 up to a 10-inch pot, according to the size of the plants. Use any good rose soil and give each pot good drainage, for later on they will require plenty of water at the roots. Pot quite firmly so that every root will be compactly surrounded with soil. They can then be put in a deep frame and enough strawy manure put over them to keep the frost from breaking the pots until it is time to bring them in for forcing.

Poinsettias

Poinsettias in pans or pots should neither be over-watered nor allowed to become dry at the roots, as either extreme will cause the foliage to turn yellow. Stock fully developed will be better for having the temperature lowered to about 55 degrees four or five days before they are wanted, as it will help them to harden up. Those not yet well developed in their bracts should be given anywhere from 65 to 70 degrees at night with an increase of from 15 to 20 degrees during bright weather. To have cut poinsettias in perfect condition they should have the ends cauterized by being dipped in boiling water for about twenty seconds, which will prevent their wilting, and the stems then immersed half way in water. The best temperature to keep the bracts in after they are cut is from 45 to 48 degrees, leaving them here from 12 to 18 hours which will put them into fine shape to stand up for the holiday use.

Tulips and Von Sions

It happens often that a portion of the main crop of these bulbs intended for spring trade, is neglected until too late, for lack of time or other reasons. Main crops of narcissi, hyacinths and tulips should be planted now without delay. It is well to have these bulbs outside until about the middle of December, when they can be brought in and stored under a bench in a house of 50 to 55 degrees. The necessary condition to force tulips from December until March is some place where they can have a strong top heat, with only a mild heat at the roots. Two or three times daily spraying will be necessary for the earliest ones. Eighty to eighty-five will not be any too high a temperature when the sun shines. See that they are kept moist at the roots at all times. If you want to keep the flowers for some time before they open place in a shaded and cool place.

Reminders

Now is the time to sow canna seeds. Give them a thorough soaking and chip lightly before soaking.

Plant antirrhinums as the chrysanthemums are cleared away. Sweet peas can also be planted for a successional crop.

Put gladiolus Colvillei, and any of the nanus section in flats as soon as bulbs are received.

Sow cyclamen again for succession; obtain the best strain, as it does not pay to grow poor seed.

Next week: Holiday Suggestions; Lilies for Christmas; Lillium speciosum; Lorraine Begonias; Rhododendrons for Forcing; Reminders.

THANKSGIVING DAY SUPPLIES

THE BEST IN THE WORLD

Can be had from the Advertisers in this Paper

HORTICULTURE

VOL. XXIV

NOVEMBER 25, 1916

NO. 22

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 147 Summer Street, Boston, Mass.

Telephone, Beach 292.

WM. J. STEWART, Editor and Manager

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Orchid Decoration at Philadelphia.	
NOTES ON CULTURE OF FLORISTS' STOCK—Cyclamen—Flowering Plants for Christmas—Hybrid Perpetual Roses for Easter—Poinsettias—Tulips and Von Sions—Reminders— <i>John J. M. Farrell</i>	693
ROSE GROWING UNDER GLASS—Disbudding—Pinching Beauties—Thanksgiving—Lining Boxes— <i>Arthur C. Ruzicka</i>	695
CLUBS AND SOCIETIES—Gardeners' and Florists' Club of Boston—Sewickley Horticultural Society—Meetings Next Week—Holyoke and Northampton Florists' and Gardeners' Club—National Association of Gardeners—Chrysanthemum Society of America—Massachusetts Horticultural Society—Chicago Florists' Club—Lancaster County Florists' Association—Horticultural Society of Western Pennsylvania.....	696-697
THE EXHIBITIONS—Cleveland Flower Show—Fred Lautenschlager, portrait—University of Illinois—Exhibition at Worcester, Mass.—Pittsburgh Flower Shows, Illustrated—Co-operative Flower Show at Ames, Iowa—Rhode Island Horticultural Society—The Portland, Me., Exhibition.....	698-700
SEED TRADE—One Week's Imports.....	704
OF INTEREST TO RETAIL FLORISTS:	
New Flower Stores.....	706
Flowers by Telegraph.....	707
NEWS ITEMS FROM EVERYWHERE:	
Chicago, Philadelphia, Washington, Boston.....	708-709
OBITUARY—W. H. Donohue—John H. Muller—T. C. Joy—George C. Copp.....	709
FLOWER MARKET REPORTS:	
Boston, Chicago, Cincinnati, New York, Philadelphia	711
Pittsburgh, St. Louis.....	713
Washington.....	717
DURING RECESS—Boston Florists' Bowling League—Washington Bowlers—Chicago Bowlers.....	718
MISCELLANEOUS:	
Boxwoods in Winter Storage— <i>W. A. Manda</i>	700
Proposed Tour of the National Parks and Forests..	701
Massachusetts Agricultural College Notes.....	701
Publications Received.....	702-703
Catalogues Received—Visitors' Register.....	704
Greenhouses Building or Contemplated.....	718
Patents Granted.....	718

The newspapers' help

Perhaps the most significant feature in connection with the recent successful floral art exhibition of the Chicago Florists' Club was the unusual amount of high-class newspaper publicity accorded to the event. To get the large metropolitan dailies, such as the Chicago Daily Tribune, to devote prominent reading space and pictures to an affair conducted by any trades people is something almost beyond the limits of possibility, as is well known to anyone who has ever tried it. Just how it was accomplished in Chicago we do not know, but probably Fred. Lautenschlager's generalized explanation comes close to the truth:—"It seems that it was the kind of a show that the newspapers like to speak of and the kind of a show the public prefers to visit." Mr. Lautenschlager was the publicity man and he should know, if anyone does. However, we have no doubt that Mr. Fred's well-known persuasive personality was no small factor in the achievement.

A successful show season

There are a few straggling fall exhibitions yet to be heard from but the great majority of them are now past and the industrious workers—officials and exhibitors—may now rest from their worry and toil and sum up their experiences with a view to planning discreetly for the next series. HORTICULTURE has done its level best in this trying period of high cost of paper and other material to give adequate space for suitable record of what has been going on in the exhibition world and it is hoped that our efforts have not failed of appreciation. It is very encouraging for us all to note that the reports from exhibitions everywhere are so uniformly favorable. There was a time, not many years ago, when the reverse was true with a regularity that was disheartening. We have not been backward in expressing our views and convictions as to the policies that would make for still greater success in the present attitude of the public and we have good reason to believe that HORTICULTURE's zeal in that respect has not been fruitless.

Thanksgiving Day

Before "ye editor" has another opportunity to exchange greetings with HORTICULTURE's readers another Thanksgiving Day will have passed into history. The observance of the joyous old New England holiday all over the land seems to increase as the years roll along in its value to the flower trade and for that boon at least the flower trade should be especially thankful. Any occasion or movement which affords opportunity to enlarge our business and thus realize in a more substantial manner on the *entire* product of the industry is, in our humble opinion, what the American florist stands most in need of today. Any such realization would be justifiable cause for a day of thanksgiving such as the florist has rarely experienced. How to proceed to raise the market value of flowers in the existing emergency, in keeping with the advancement in cost of other commodities, is a very serious problem and one that seems almost insurmountable. But if we cannot raise prices we *can* increase sales and thus turn to profit the enormous waste which the flower business has been standing for with marvelous patience and equanimity.

Fire prevention

We have all heard and read considerable regarding "Fire Protection Day," which has recently been widely observed all over the country. While it is important that the cooperation of every commercial interest be given to this vitally important movement yet it is true and should be recorded that the greenhouse industries—meaning not only those who operate greenhouses but those who make a business of building them—have been zealously working for the ideals for which "Fire Prevention Day" stands, insistently and persistently, for years and years. In no other line of building construction has the elimination of fire hazard received closer attention or been carried forward to a greater degree of success than in the structure and equipment of the modern type greenhouse. There was a time, which is still fresh in the memory of many of us, when a greenhouse establishment was justifiably looked upon as something of a menace to any residential neighborhood because of its liability to start a conflagration. But greenhouse buildings and heating outfit as constructed and installed today by the leading specialists in such work are no longer a source of danger either to themselves or adjacent structures and from being known as a vulnerable and risky proposition, greenhouse property, if up to modern ideals in structure and materials is well entitled to stand in the "preferred" class.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Razick

Questions by our readers in line with any of the topics presented on this page will be answered by Mr. Razick. Such communications should invariably be addressed to the Editor of HORTICULTURE.

Disbudding

This will have to be attended to regularly now, as the roses will be too valuable to have their quality impaired by allowing a lot of side buds to take the strength away from the bud proper. It often happens that some of the bottom breaks or the extra heavy growths do not bear a good bud. In this case it will be profitable to remove the top of the growth to about where the rose would be cut, and do this as soon as the bud shows what it will be like. If this is done soon enough the eyes on the growth will break at once and there will be three roses where there was only one poor one. There may be some deformed buds on the weaker growth and all these should be taken as soon as they show up. Do not cut these back too far but take them out with the one leaf only so that it will not be long before the growth will bear a bud again and it can then be cut down to where it should be. When doing this work be sure to have a bag or something to put the waste into as it is poor policy to drop everything on the benches where it will have to be picked up again. Green fly, thrips and other insects usually are at the top of the shoots and if there should be any on the buds taken and the buds dropped on the bench it would give the insects an excellent chance to get right on the plants again. Pick them up as they are taken off and burn them later.

Pinching Beauties

It will be well to go through the Beauty houses every so often and pinch all the real short growth such as would produce a No. 3 flower. Care should be taken, however, to see that the work is done on time and not let go until the buds are big. The proper time is when the buds are about the size of a wheat grain, or in other words as soon as they are large enough to be seen. The buds should be taken down to a good leaf. This

work is so simple and so profitable that it is well worth cutting heavy and are pretty well cut off. It will not be long before these pinched shoots will start growing again and will soon run up into a fancy or an extra, thus proving not only far more profitable but helpful to the plants as well, as they will have something to keep the roots busy, and that is what they need especially in dark weather.

Thanksgiving

It will be here next week, and in spite of all our troubles such as labor, coal, high prices for all raw materials, we have a great deal to be thankful for. Business is good with prospects of being better, and we should try to better it by growing better stock, handling it better, in fact do all we can to get our products to the homes of our patrons as fresh as possible, and this will mean more sales. Do not try to hold the cut roses for a week ahead of the holiday in order to benefit by the higher price that may be paid then. It is bad business and there is nothing to gain. If stock should be very scarce pickled roses may sell, but if there is a good supply all poor stuff will be dumped, as it should be, and it will not be only the grower who will lose but the whole trade will suffer more or less.

Lining Boxes

With the thermometer down to 20 mornings it will be necessary to see that the boxes are properly lined so that the roses will not be cold or frozen when they reach the market. Paper is high priced so it will be well to see your wholesaler and get a line on how many sheets are required at certain temperatures. He is the man who gets the stuff and he will know better than the grower. When lining the boxes see that the corners are well protected as it is here where most of the cold air gets in and freezes the roses.

TWELFTH ANNIVERSARY NUMBER — AND — CHRISTMAS SPECIAL

Will be Issued under Date of

DECEMBER 9, 1916

A Deserving and Business Promoting Issue as heretofore. **Patronized by the Best Trade.** Goes to press on Thursday, December 7. Send advertising copy a few days in advance and give us time to place it well. **No Advance in Space Rates.**

CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The regular monthly meeting of the Gardeners' and Florists' Club of Boston, was held at Horticultural Hall on Tuesday, Nov. 21. A large number of members were present and the lecture of the evening was given by John Davey of Kent, Ohio, well known as "the Father of Tree Surgery." The lecture was illustrated by lantern slides and entitled Tree, Insect, Bird. Many of the members expected a lecture on practical tree surgery, but the subject was scarcely touched upon, although many slides were shown of good and bad tree pruning carried out in various cities throughout the states, also the healthy healing effects of large wounds that had been filled in and braced by the Davey System, but the lecturer failed to describe how the process was carried out. Most of the slides were of birds, insects, cats, rats, etc. The lecturer emphasized the fact of providing plenty of moisture at the roots during the growing season to preserve trees in a good healthy condition.

Mr. Davey utterly condemned the English sparrow and said he would like to see every one in the U. S. A. exterminated. The discussion was slight and chiefly in opposition to his remarks about the sparrow.

It was decided to invite the American Carnation Society to hold their annual convention in Boston in January, 1918. The following officers were nominated for the ensuing year: President, James Methven; vice-president, A. K. Rogers; secretary, W. N. Craig; treasurer, Samuel J. Goddard; executive committee, H. H. Bartsch, W. J. Kennedy, Peter M. Miller, George Hamer, John F. Briry, Thos. Coles, W. H. Judd, W. C. Rust.

List of awards: Carnation No. 44, shown by Littlefield & Wyman, N. Abington, hon. mention; Carnation No. 48a, shown by Littlefield & Wyman, report of merit; Carnation Nancy, shown by S. J. Goddard, Framingham, report of merit; Carnations Doris and Laddie, shown by S. J. Goddard, report of merit for each. Rosalia, by the same exhibitor, report of superior merit. Chrysanthemum, sport of white seedling, by S. J. Goddard, report of merit.

SEWICKLEY HORTICULTURAL SOCIETY.

At the monthly meeting, held on Tuesday, November 14, Vice-President R. Boxel presided. The various committees of the chrysanthemum show were given a vote of thanks for their efficient services. For the coming gardeners' convention in Washington, J. Barnet has been appointed publicity committee for this district and a good delegation should be on hand. Nominations for officers for 1917 being in order, the following were proposed: President, John Barnet, R. Boxel, A. E. Bousey, J. Carman; vice-president, A. Davidson, Robert Taylor; secretary,

Meetings Next Week

Monday, Nov. 27.

Florists' and Gardeners' Club of Rhode Island, Swartz Hall, Providence, R. I.
Gardeners' and Florists' Club of Baltimore, Florist Exchange Hall, Baltimore, Md.

Tuesday, Nov. 28.

Newport Horticultural Society, Newport, R. I.
Tarrytown Horticultural Society, Tarrytown, N. Y.

Friday, Dec. 1.

North Shore Horticultural Society, Manchester, Mass.
North Shore Horticultural Society, Lake Forest, Ill.
Pasadena Horticultural Society, Pasadena, Calif.
Yonkers Horticultural Society, Yonkers, N. Y.
People's Park Cottage Gardeners Association, Paterson, N. J.

Saturday, Dec. 2.

Pacific Coast Horticultural Society, San Francisco, Calif.

Marcus Curran; treasurer, Wm. Thomson, Jr.; executive committee, Wm. Gillies, Wm. Thomson, A. E. Bousey, A. Davidson, R. Boxel, J. Carman, J. Barnet, Wm. Beele, J. Jones, W. Curran and J. Barnett were appointed to attend the next meeting of the Pittsburgh Florists' and Gardeners' Club and the Western Pennsylvania Horticultural Society and get things started on the proposed Fall Show for 1917. It was left to the executive committee to arrange for a Ladies' Night in January. A most interesting paper from the National Association of Gardeners on "Horticulture as a Profession from the Standpoint of a Gardener" was ably read by John Carman, to whom a vote of thanks was accorded. Next four meetings will be at 7.30 instead of 8 P. M. Twenty-one applications for membership were received. M. C.

HOLYOKE AND NORTHAMPTON FLORIST'S AND GARDNER'S CLUB.

The regular meeting was held jointly with the M. A. C. Florist's and Gardener's Club at Amherst, Nov. 13, with the M. A. C. flower show as an extra attraction members turned out in good number and as usual the occasion was one of profit and pleasure. It was felt that a closer spirit of cooperation between the two clubs would tend to mutual advantage, and to this end an open invitation was extended to the members of each club to attend the meetings of the other. A pleasing feature was the presentation by President Butler, on behalf of the club, of a cut glass bowl to Prof. Nehrling in honor of his recent marriage.

G. H. Sinclair, D. J. Gallivan and R. S. Cary, judges of the students' work at the show, were called upon to explain the why and the wherefore of their awards. They acquitted themselves nobly. After a social half hour members dispersed with the feeling that it was an evening well spent.

H. E. D.

NATIONAL ASSOCIATION OF GARDENERS

The plans have all been completed for the annual convention of the National Association of Gardeners to be held in Washington, D. C., Dec. 5 and 6. The New Ebbitt House has been selected as the headquarters of the association during the convention. The lecture hall of the new Smithsonian Institution has been placed at the disposal of the association for its business meetings.

Members are requested to register with the secretary at the association's headquarters by nine o'clock on Tuesday morning, Dec. 5, when they will be furnished with complete details of the two days' program, which will be one full of interest and sufficient activity to keep the visitors occupied during their stay at Washington.

While the purpose of holding the convention will not be overlooked, it has been decided to make the meetings as brief as possible without impairing the business that is to come before them, in order that the visiting members may have all opportunity possible to enjoy the many interesting points in and around the Capitol city.

Congress will be in session and an opportunity will be provided the gardeners to observe how the laws of our country are enacted. On their visit to the Department of Agriculture's buildings they may learn how the government grows its plants while their visit to the mint will enable them to see how money is made.

An automobile trip through the park system of Washington and a journey to the country estate of George Washington, at Mt. Vernon, are a part of the entertainment.

CHRYSANTHEMUM SOCIETY OF AMERICA.

The following reports have been received on new chrysanthemums, from the committees appointed by the society.

Exhibited at Boston, Oct. 28, by Elmer D. Smith & Co., Adrian, Mich., name of variety, Smith's Imperial; color white, Jap. Inc.; points com. 88. At New York, Oct. 28, name of variety, October Herald; color bronze; Jap.; points com. 87, name of variety, Smith's Imperial; color, white; Jap. Inc.; points com. 88; name of variety, Miss Anola Wright; color, bright pink; Jap. Inc.; points ex. 86. At Cincinnati, Nov. 11; name of variety, Helen Lee; color, light pink; Inc.; points com. 85. At Chicago, Nov. 11; name of variety, Helen Lee; color, light pink; Inc.; points com. 90.

At Chicago, Oct. 28, by H. W. Wehrmann, Maywood, Ill., name of variety, Ella; color, bronze yellow; anemone; points, anemone 89. Nov. 4, by Peter Reinberg, Chicago, Ill.; name of variety, J. Hamilton Lewis; color, straw color with lavender edge; pompon; points, pompon 92.

At New York, Nov. 6, by the E. G. Hill Co., Richmond, Ind., name of va-

riety, Richmond; color, yellow; Jap. Inc.; points com. 86. At Chicago, Nov. 12; name of variety, No. 92; color, yellow; Inc.; points com. 90. Name of variety, No. 69; color, yellow; Inc.; points com. 83.

At Philadelphia, Nov. 8, by Chas. H. Totty, Madison, N. J. name of variety, Louisa Pickett; color, white; Jap. Inc.; points com. 88, ex. 88. Name of variety, W. H. Waite; color, bronze; Jap. Inc.; points com. 90, ex. 89. Name of variety, Golden Champion; color, deep yellow, slightly tinged with bronze; Jap. Inc.; points com. 87, ex. 89. By G. A. Lotze, Glen Burnie, Md.; name of variety, No. 3; color, lemon yellow; Jap. Inc., points com. 89. By Manus Curran, gardener to Mrs. E. M. Horne, Sewickley, Pa., name of variety, No. 20; color, light bronze; single, points single, 88.

At Chicago, Nov. 12, by James Livingston, Milwaukee, Wis.; name of variety, No. 9; color, yellow, anemone, points anemone 89. By Mt. Greenwood Cemetery Assn., Morgan Park, Chicago; name of variety, Hilda Canning, color, bronze; pompon; points, pompon, 92.

CHAS. W. JOHNSON, Secy.

MASSACHUSETTS HORTICULTURAL SOCIETY.

At the annual election, November 18, in Horticultural Hall, Boston, the Massachusetts Horticultural Society chose the following named to hold office during the coming year:

President, Richard M. Saltonstall; vice-president, Nathaniel T. Kidder; trustees, three years, Stephen M. Weld, Ernest B. Dane, Edwin S. Webster, Andrew W. Preston; nominating committee, Marcellus A. Patten, William Sim, Nathaniel T. Kidder, John K. M. L. Farquhar, William Downs.

Mr. Saltonstall presided over the meeting during which he announced the appropriation by the trustees of the sum of \$8,500 to be distributed in prizes to competitors in the Horticultural Society's exhibitions, and the sum of \$350 for children's prizes exclusively. There was no reading of annual reports. That is left for the meeting of the society in January.

CHICAGO FLORISTS' CLUB

On account of the Illinois State Florists' Association the club meeting was held Nov. 16, one week later than usual. Nomination of officers which was the principal business resulted as follows: For president, Wm. H. Amling and Fred Lautenschlager; vice-president, Paul Klingensporn and Emil Reichling; treasurer, Michael Barker and O. Amling; secretary, Guy French and Allie Zech; trustees, A. Henderson and A. Jurgens. Mr. Lautenschlager has since written a personal letter to his friends in the trade, most heartily endorsing the nomination of Wm. H. Amling as president and requesting that he be made the unanimous choice of the club.

The American Dahlia Society executive committee held a meeting on Nov. 8, and found everything working very favorably for a successful year.

LANCASTER COUNTY FLORISTS' ASSOCIATION.

Thursday, November 16, a raw, cold day, the first touch of winter to visit this section, did not deter thirty good men and true from meeting at the greenhouses of Elmer Weaver and taking automobiles for an afternoon visiting trip.

At Elmer Weaver's we found a large house devoted to mignonette, calendula and sweet peas with a few plants of a new tomato called Napoleon, which had without any artificial fertilization or special attention in any form enough fruit on one plant to make half a bushel of good, medium-sized tomatoes when ripe. Of the newer carnations he was trying out Nancy and Alice with the odds on Nancy, but neither quite in the race with Supreme. Belle Washburn, Aviator and Nebraska were the scarlets with Nebraska in the lead, Aviator a good second, and Washburn plugging along with a possibility of winning out before the end of the season. Alice Coombs has not shown any commercial supremacy as yet, but from the looks of the stock it is not so much the fault of the variety as the condition or health of the cuttings disseminated last spring. Akehurst, of which there are several beds at this establishment, came near being thrown out as worthless the year after its introduction for the same reason but today quite a number of growers have it and consider it as one of their leading varieties. Theo shows some possibilities as a medium-sized commercial pink and a new white of Mr. Weaver's own is well worth watching.

Chas. M. Weaver's is the sweet pea establishment of this section and he has them in three stages, a four hundred-foot house to each stage. One house is in crop now, another just coming in and a third with the glass just being put into the sides. The thermometer had been down to 20 in the morning and was down to 30 when we were there. A house of mignonette was a revelation to some of the growers, every head being the same height and the whole house as uniform as a field of wheat.

At H. B. Weaver's we found carnation Alice doing exceptionally well and his Lord & Burnham iron-frame house doing business right along with prospects of being on the job for his children.

Jacob Weaver, of Witmer, was the next stop. It might look as if the whole Weaver family were florists, but, like the Herrs, they are as numerous as the leaves on the trees. At this place we found two new carnations that have originated with Mr. Weaver, one a yellow that I mentioned when we were here two years ago. It has a slight tinge of pink but not noticeable unless looked for, and in size, substance, stem and habit it certainly is good in its own home town. What it might do if disseminated remains to be seen. He has about a hundred plants of a dark cerise, or red, of immense size and wonderful keeping qualities, and unless it should develop some fault not yet in evidence it would prove a good one to grow. Cutting across the country we came to the establishment of Elias Lefevre,

where is some of the best carnation soil in the country and the carnations grow it. If Fred Horner, Jr. could come to this place and see Pink Perfection and White Wonder growing he would have to buy a new hat before going back to Lafayette, for I do not think they ever had them as good in that city.

John Shreiner and A. Denlinger, two of our market growers with places close together, were visited and at Shreiner's we found a general line of stock for market, with a young chicken having a glorious time among his chrysanthemums. At Denlinger's a good part of the place is devoted to carnations for a winter crop to ship later on. The houses are filled to overflowing with vegetable and flower plants for the market. One of the party made the assertion that these two men made more money per square foot with their intensive culture than any of the large establishments of the country do.

Enos Lefevre had a new chrysanthemum that every grower in the party wanted to buy stock of. It is called "Brock" and is a fine large incurved pink of exceptional color. J. Wade Galey was last on the list. While every place we touched was full of good stock, and especially so in carnations, this place of Galey's was like adding the whipped cream to an already rich dessert. It is a model of neatness and efficiency and his new King construction house, by all odds the finest house in the country, part of the credit belonging to the King people and part to Mr. Galey, as he has it completed with heavy cement walks with lattice trellis for the support of his carnation wires and all painted white so that everything from the roof to the ground appeals to the eye and imagination.

Coming back to the city, the regular meeting of the club was called at 7.30 P. M. sharp. Rudolph Nagel had on exhibition some fine blooms of chrysanthemums Golden Chadwick, Edwin Seidewitz and Improved Chadwick.

Harry K. Rohrer, chairman of the flower show, reported a success. A committee consisting of David Rose, Lemon Dandis and Thomas Fries was appointed to arrange for the annual banquet in December. Rudolph Nagel then opened a discussion on chrysanthemums which was participated in by nearly all present, with the result that the following were all classed as good ones to grow:

Oconto, Chas. Razer, Autocrat, Bonaffon, Golden Queen, Yellow Razer, McNeiss, Nonin, Marigold, Lena Bay, White Chieftain, Patty. In pompons: Pitcher, Harvest Home, Seven Oaks, Mense varieties, Buckingham, Baby sorts.

In a general discussion on co-operation in the retail trade many good points and suggestions were brought out and it is to be hoped that some uniformity will develop from it.

A spring show, purely as an advertising proposition, was taken up, but not much enthusiasm was displayed as the size of the town allows customers to visit the greenhouses without any trouble, and the advantages to be secured were considered not enough to pay the cost.

T. J. Nolan was a visitor.

ALBERT M. HERR

THE EXHIBITIONS

CLEVELAND FLOWER SHOW.

List of additional awards not included in report of judges made Nov. 11:

Certificate of Merit: A. N. Pierson, Inc., Cromwell, Conn.; Group of novelty chrysanthemums not for competition; Chas. H. Totty, Madison, N. J.; Group of pompon and single chrysanthemums, not for competition; John A. Then, Chicago, Ill.; New carnation Thanauthos; Elmer D. Smith, Adrian, Mich.; New pink pompon chrysanthemum Little Gem; H. P. Ellis, Cleveland; Asparagus Sprengeri.

Honorable Mention: A. N. Pierson, Inc., Cromwell, Conn.; New chrysanthemum, Barbara Davis; Nagitree Gardens, Wickliffe, O.; Group of palms and stove plants, also pompon and single chrysanthemums; Anna Dean Farms, Barberton, O.; Sunburst roses, not for competition.

The third annual Cleveland Flower Show will be held in the Coliseum, Nov. 6th to 11th, 1917. This will be a big national show with the strong cooperation of all the national horticultural and florists' organizations. It will be planned on a big scale, even surpassing the Cleveland Flower Show held in Nov., 1915, which put Cleveland on the map in horticultural circles and is still referred to as one of the best flower shows ever held.

To growers—begin to plan your exhibits now. An advance premium list with big prizes will be ready Feb. 1st. Write for a copy.

To trade exhibitors space for commercial displays will be limited. Applications for space received now and reservations made in January. Address M. A. Vinson, Mgr. Cleveland Flower Show, 402 Leader-News Bldg., Cleveland.

UNIVERSITY OF ILLINOIS.

The Fifth Annual Chrysanthemum Show of the Floricultural Division of the University of Illinois was visited by over 6,200 people. The show began Sunday, Nov. 12, and extended through Saturday, Nov. 18. On Sunday alone, between the hours of 1.00 and 5.00 P. M., over 3,500 people viewed the display of 364 varieties of chrysanthemums. Of these 364 varieties, 225 are seedlings of pompons, singles, and anemones and are the result of student class work.

The pot plants of the smaller varieties filled a house 35 feet wide by 105 feet long. The larger flowering varieties were in the bench and were viewed from a raised walk along the entire length of the house. The entire range of greenhouses was open to the public.

The ladies of the State Federation of Women's Clubs which was in session here during the week, were delighted with the show. Governor Dunne and family visited the greenhouses after the Home-Coming football game on Saturday.

EXHIBITION AT WORCESTER, MASS.

One of the most effective of the fall exhibitions held by the Worcester County Horticultural Society was staged on Thursday, Nov. 9, in Horticultural Hall. The show was in charge of A. H. Lange of H. F. A. Lange Co., florists, whose displays were among the most attractive found in the hall.



FRED LAUTENSCHLAGER,

Publicity Manager of the Recent Floral Art Show at Chicago.

Mr. Lange selected the upper centre of the hall for his principal exhibit, which comprised potted plants and cut flowers arranged in a round group about a silver gazing ball. Harry Randall exhibited roses, White Killarney, Ophelia, Mrs. George Sawyer and Francis Scott Key banked against a background of tree and Farleyense ferns. A. N. Pierson, E. W. Breed, W. R. Nicholson, Worcester Conservatories, F. B. Madaus were among the other firms represented. There were four entries in the table decoration class and the prizes were awarded in the following order: 1st, H. F. A. Lange; 2d, Lucy M. Coulson; 3d, Mrs. P. G. Forbes; 4th, A. J. Jenkins.

PITTSBURGH FLOWER SHOWS

Last Sunday practically ended the long and splendid display of chrysanthemums at the Phipps conservatories in Schenley Park and West Park, and the H. J. Heinz conservatory, which were supplemented by the very successful initiative effort by the Sewickley Horticultural Society. Approximately 20,000 people viewed the Schenley display last Sunday, with an additional 10,000 the week before, these figures practically holding good for the other places, as for a number of years it has been noticeable that these flower lovers, old and young, "when once started, make the rounds." During the week there were troops of school children—often 200—in charge of teachers, who preached the gospel of work, as well as pleasure.

While Superintendent George W. Burke and foremen John Jones and James Moore are modest to a fault, annual visitors for years tell us that they have never seen the greenhouses as attractive throughout. Mr. Jones' display numbered about 3,000 chrysanthemums grouped and massed by a master's hand and artist's eye for color effect and graceful proportions. Three houses were called into requisition, one embodying a huge Dutch bouquet, which gave especial delight to the little folks. There was also a magnificent display of lilies, crotons and aquatic plants.

The West Park exhibition was supplemented by the first Aquarium Show of the year-old Pittsburgh Aquarium Society in one of the tropical palm houses. In Mr. Moore's houses was a charming distinctive touch given by large hanging baskets of yellow-starred *Indicum chrysanthemum* and standards of *Nerissa*.

The show house of the Heinz conservatory was utilized for the chrysanthemums, which the superintendent, Anthony A. Leach, and his first assistant, Mr. Bolton, arranged to surpass



CHRYSANTHEMUM SHOW AT H. J. HEINZ CONSERVATORY, PITTSBURGH, PA.
A. A. Leach in Charge.

all previous efforts in a sunken garden effect. One of the smaller connecting houses was devoted to a beautiful display of orchids, while still another was transformed into a Japanese garden, which will probably remain as a permanent feature. Many of the accessories for the latter were purchased by the owner during a recent trip to the Orient.

CO-OPERATIVE FLOWER SHOW AT AMES, IOWA.

A sincere disposition of the florists of Iowa to co-operate with the State College was manifested by the great number of entries made and the first state flower show was staged at the college in Ames, Friday and Saturday, Nov. 10 and 11.

The number of entries and the character of the material sent in was exceedingly good, considering that no plans were made for staging this co-operative show until about three weeks ago. In this enterprise the college and the florists worked together in an effort to stimulate a greater public interest and the success of this first exhibition by the florists has made it almost certain that a big fall show will be held next year in Des Moines.

Friday, which was Florists' Day brought many florists and their wives to Ames as well as some out-of-state trade visitors. About forty-five florists availed themselves of the opportunity to gather at the college on Friday. In connection with the flower show the florists held a meeting in the afternoon which proved to be of great interest. Dr. I. E. Melhus of the college gave a lecture on Plant Diseases of Interest to Florists. He was followed by Roy F. Wilcox of Council Bluffs, Iowa, who discussed the Cost of Production in Comparison with Present Selling Prices. The remainder of the meeting was given over to a general discussion of Terms of Credit, Flower Show, and Plans of Increasing and Educating the Trade.

In the evening the florists attended a banquet given by the Horticultural Club of the college. The support which the florists gave this first attempt at staging a flower show of state-wide interest received many commendations, and the amount of flowers sent in exceeded expectations. In addition to the material exhibited by florists in the nineteen competitive classes, several sent in other material of interest. The various novelties from the central west attracted much comment. Some of the newer carnations were *Thenanthos* exhibited by the Randall Co., Chicago; *Akehurst*, by *Schroeder Floral Co.*, Milwaukee, Wis.; *Nebraska*, by *C. H. Frey Co.*, Lincoln, Nebr.; *Bonfire* and *Rosette* by *Wieter Bros.*, Chicago. Among the roses were noted *Baby Doll*, Mrs. W. R. Hearst, and *Lady Alice Stanley*, from J. A. Budlong, Chicago and *Minnetonka* from the *Alpha Floral Co.*, Des Moines. *Chrysanthemums* in variety were exhibited by *E. D. Smith & Co.*, Adrian, Mich. *J. S. Wilson* of Des Moines had a fine collection of seedlings of single and anemone *chrysanthemums*.

J. F. Wilcox Sons of Council Bluffs, staged an exhibit of cut flowers and pot plants covering 125 square feet. This fine display included both large and small *chrysanthemums*, roses, carnations, cyclamens and begonias.

Wesley B. Green of Des Moines, J.

ORCHIDS ! ORCHIDS ! SPECIAL OFFER

Freshly Imported in Fine Condition

10 cases	<i>Cattleya gigas Sanderiana</i> ..	\$50.00 per case
5 cases	<i>Cattleya Trianae Papayan</i> var.	45.00 per case
1 case	<i>Cattleya Schroederæ</i>	50.00 per case
1 case	<i>Cattleya Gaskelliana</i>	45.00 per case
or the 17 cases for \$800.00 net cash.		

THIS OFFER WILL NOT APPEAR AGAIN

LAGER & HURRELL, SUMMIT, N. J.
Orchid Growers and Importers

KENTIA SEEDS

NEW CROP—JUST ARRIVED

KENTIA BELMOREANA

KENTIA FORSTERIANA

COCOS WEDDELIANA

Write for Import Prices, stating quantity required

McHUTCHISON & CO., THE IMPORT HOUSE 95 Chambers St., New York

JULIUS ROEHRS CO.

HEADQUARTERS FOR

**Choice Flowering and Foliage
Plant Stock
FOR IMMEDIATE DELIVERY**

We have twelve houses filled with the lovely Mrs. Peterson Begonia the gem of all Begonias. All sizes from \$6.00 per dozen up to \$4.00 each.

Send for Catalog of Christmas Stock

RUTHERFORD, - - NEW JERSEY

T. D. Fulmer of Des Moines and Chas. J. Reardon of Davenport served as judges of the commercial exhibits.

Awards were made as follows:

CHRYSANTHEMUMS Six white Kemble, Smith Co., Boone, 1st with Wm. Turner; H. E. & C. W. Krebs, Cedar Rapids, 2nd; Kemble Floral Co., Oskawosa, 3rd. Six yellow Aldons & Son, Iowa City, 1st with Marigold; H. W. & C. W. Krebs, 2nd with Yellow Turner; Kramer & Son, Cedar Rapids, 3rd with Major Bonaffon. Six pink—O. B. Stevens, Shenandoah, 1st with Dr. Enguehard; H. E. & C. W. Krebs, 2nd with Winter Cheer; Kramer & Son, 3rd with Dr. Enguehard. Six any other color—Mr. Denmead, Marshalltown, 1st with Black Hawk; J. H. Wilson, Des Moines, 2nd with Pockett's Crimson; O. B. Stevens, 3rd with Mrs. O. H. Kahn. Largest flower—Kemble, Smith Co., with Wm. Turner. Collection of pompoms Grant Newport, Cedar Rapids, 1st; O. B. Stevens, 2nd; Kemble, Smith Co., 3rd. Collection of sin-

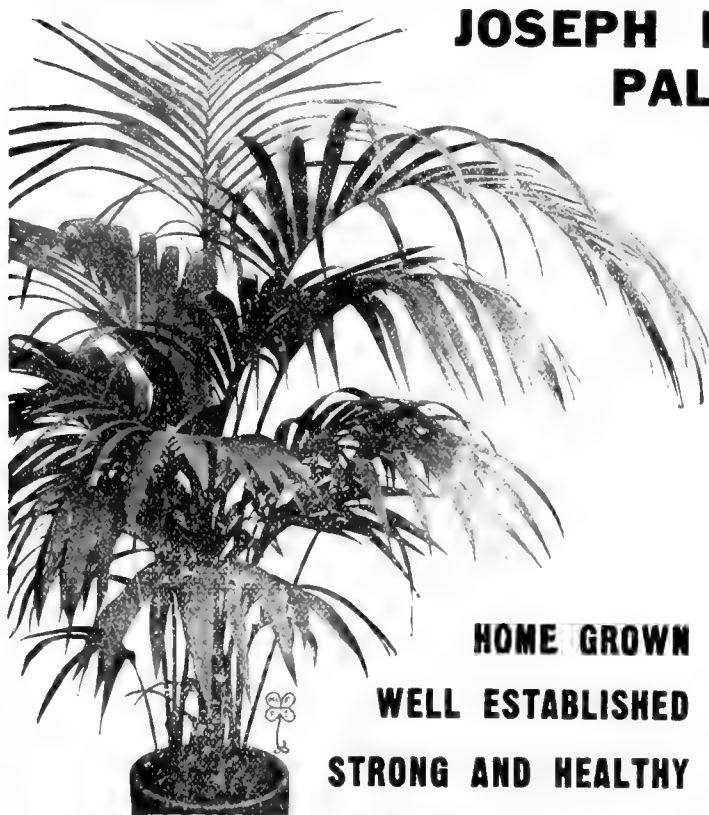
gles and anemones, or either—H. E. & C. W. Krebs.

ROSES—Twelve Mrs. Chas. Russell—Mr. Denmead, 1st; Kemble Floral Co., 2nd. Twelve *Ophele*—Herman Bros., Cedar Rapids, 1st; Kemble Floral Co., 2nd. Twelve White Killarney—Mr. Denmead, 1st; O. B. Stevens, 2nd; Herman Bros., 3rd. Twelve Killarney—Mr. Denmead, 1st; Herman Bros., 2nd; O. B. Stevens, 3rd. Twelve Richmond—Mr. Denmead, 1st; Kemble, Smith Co., 2nd; Kemble Floral Co., 3rd. Twelve any color—Herman Bros., 1st with Sunburst; Kemble Floral Co., 2nd with Ward; Herman Bros., 3rd with Ward.

CARNATIONS—Twelve light pink—Kemble, Smith Co., 1st; Grant Newport, 2nd; I. O. Kemble, 3rd. Twelve dark pink—I. O. Kemble, 1st; Kemble Floral Co., 2nd; Mr. Denmead, 3rd. Twelve white—Kemble, Smith Co., 1st; I. O. Kemble, 2nd; Grant Newport, 3rd. Twelve red—I. O. Kemble, 1st; Kemble Floral Co., 2nd; Kemble, Smith Co., 3rd.

The college had its greenhouse

JOSEPH HEACOCK COMPANY'S PALMS AND FERNS



**HOME GROWN
WELL ESTABLISHED
STRONG AND HEALTHY**

JOSEPH HEACOCK CO.,

**Railway Station
Jenkintown**

WYNCOTE, PA.

CIBOTIUM SCHIEDEI.

Each

9-in. tubs, 5 ft. spread..... \$5.00

KENTIA BELMOREANA.

	Leaves	In. high	Each	Per doz.
2 1/2-in. pot	4	8-10		\$ 1.50
3-in. pot	5	12		2.50
4-in. pot	5-6	15	.45	5.00
5-in. pot	6-7	18-20	.75	9.00
6-in. pot	6-7	22-24	1.00	12.00
6-in. pot	6-7	26-28	1.50	18.00
6-in. pot	6-7	30	2.00	24.00
7-in. cedar tub	6-7	34-36	3.00	36.00
7-in. cedar tub	6-7	38-40	4.00	48.00
9-in. cedar tub	6-7	40-42	5.00	60.00
9-in. cedar tub	6-7	42-48	6.00	

KENTIA FORSTERIANA.

	Leaves	In. high	Each	Per doz.
6-in. pot	5-6	24	\$1.00	\$12.00
6-in. pot	5-6	30-32	1.50	18.00

KENTIA FORSTERIANA, Made-Up.

	In. high	Each
7-in. cedar tub, 4 plants in tub	30-36	\$ 3.00
7-in. cedar tub, 4 plants in tub	38-40	4.00
9-in. cedar tub, 4 plants in tub	40-42	5.00
9-in. cedar tub, 4 plants in tub	42-48	6.00
	Ft. high	
9-in. cedar tub, 4 plants in tub	4-4 1/2	7.50
12-in. cedar tub, 4 plants in tub	6-7	18.00
12-in. cedar tub, 5 plants in tub	7-8	22.00

open for inspection and one large house which was filled with numerous large specimens and bush plants was the center of interest for all visitors.

Competitions for students in home floral decorations in which there were classes in table decorations, basket arrangements, vase arrangements and arrangements of autumn material proved to be of much interest to the women observers in particular.

An unique feature staged by the department—a large gilt picture frame in which was arranged a vase of large chrysanthemum formed an attractive picture entitled "The Queen of Autumn"—brought forth many approving comments.

PORTLAND (ME.) EXHIBITION.

Apple was king in Portland (Me.) City Hall last week, when the annual show of the Maine State Pomological Society was on. Together with the meeting of the Pomological Society was the Flower Show of the Maine State Florists' Society. On the platform was a most attractive assemblage by Strouts, of Biddeford, while arranged on tables in the hall center were beautiful displays by Ernest Saunders of Lewiston, M. A. Clark of Ellsworth; Saco Flower Co., J. W. Minott & Co., Portland, and A. Wallace, Portland.

C. S. Strout of Biddeford, Maine, carried off first honors for general display, consisting of ferns, chrysanthemums, geraniums, roses and carnations, including a vase of seedlings of the latter. E. Saunders was awarded second for general display. Noticeable among his collection were lilies, Jerusalem cherries, maidenhair ferns, chrysanthemums, roses and carnations.

J. W. Minott & Co. displayed cat-

tleys and cypripediums, also chrysanthemums, carnations and begonias.

The officers of the Society are: President—J. H. Stafford, Bar Harbor; vice-president—C. S. Strout, Biddeford; treasurer—E. Saunders, Lewiston; secretary—R. T. Muller, Orono.

RHODE ISLAND HORTICULTURAL SOCIETY.

The most successful November show in the history of the Rhode Island Horticultural Society was held last week in the ball room of the Narragansett Hotel. The attendance was unusually large. The local trade was well represented, judging from the list of prize winners, which included Burke & Burns, Warwick Greenhouses, Maplehurst Greenhouses, Fred Hoffman, Lawrence Hay, John Marshall, Quidnick Greenhouses, Johnston Bros., John A. Macrae, Hampton Meadows Greenhouses, T. J. Johnston & Co., Macnair, and E. J. Bevins.

HORTICULTURAL SOCIETY OF WESTERN PENNSYLVANIA.

Apropos of inaugurating plans for the June Show of 1917. Mr. Fraser and Anthony Leach were appointed a committee to confer with the Florists' Club of Pittsburgh at the recent meeting of this society.

The exhibits included a vase of Francis Scott Key roses, the contribution of Mr. Fraser. Mr. Leach and William Thompson, Jr., who has charge of the Sewickley Heights estate of Mrs. Elizabeth M. Horne of Lakewood, N. J., showed chrysanthemums. Dahlias, including forty splendid varieties, were the contribution of Mr. Murphy, supt. on the Sewickley valley farm of H. Lee Mason. Mr. Murphy received a cultural certificate

for the blooms and, incidentally, had a most interested audience during his talk on the culture thereof, in which he stated that his best results were attained from cuttings planted out late.

BOXWOODS IN WINTER STORAGE.

Gentlemen: I would appreciate your expert advice on the following method of handling Boxwoods in winter storage. Our stock of Boxwoods have grown in our nursery since spring. I propose to dig them with earth ball, burlap, soak in water and pack same in moist shingle tow, after which they will be packed lightly in straw in a slightly reclining position.

Our storage is brick, lined with paper and sheathing, plenty of light and air but no heating device. Do you think by this method I can successfully bring this stock through the winter or must I have more light, air and heat for success?

Your opinion upon this matter will be much appreciated.

Yours very truly,

E. B. S.

Regarding wintering over boxwood that has been planted and is established in the ground since spring, I should advise to have it stand as it is and cover with some leaves between and alongside of the plants. Get short good branches of evergreen—hemlock preferable—and insert them into the ground on both sides of the rows, tie the tops together so that the leaves could not blow away and so that the snow would slide off when falling down.

This is the simplest and most natural way of preserving boxwood. It is not the actual cold that does harm but the freezing and thawing of the boxwood, not through the winter but in the early spring. By this treatment there is no trouble to carry boxwood through the winter, providing it is well drained so that no water stands around the roots through the winter.

New Jersey.

W. A. MANDA.

A. KOLOOS & CO.

WRITE TODAY

WRITE TODAY

Now is the Time to Order Your Plants and Shrubs to Secure Early Spring Delivery

Such as Azalea, Aucuba, Boxwood, Blue Spruce, Conifers, Clematis, Hydrangea, Lilacs, Laurels, Japanese Maples, Roses, Rhododendrons. American Hardy varieties one of our specialties, and all other Hardy shrubs for forcing or outdoor.

ROSES, Bush, Tree and Climbers in more than 300 sorts, including the leading and new up to date varieties are offered by us.

LET US QUOTE YOU ON YOUR LIST OF WANTS.

Copy Wholesale Catalogue 1917-18 Free on Application from

MR. L. VANHEERDE, c/o Maltus & Ware, 14 Stone St., New York

WRITE TODAY

WRITE TODAY

EXPORT NURSERIES

PROPOSED TOUR OF THE NATIONAL PARKS AND FORESTS.

The Massachusetts Forestry Association announces that it is arranging for next summer a Tour of the National Forests and National Parks. Non-members who are interested may secure the same privileges as members by the payment of a guest fee.

The purpose of this tour is entirely educational. The people of Massachusetts are joint owners of the national forest and national parks and they should know more about them and how they are being managed. Matters of legislation concerning these vast domains are constantly coming to our attention, and few people in the east know enough about them to act intelligently. Our views differ from our western cousins and every session of Congress registers volumes of debates on how these enormous areas should be managed. All the people should have an equal say in these matters and their decisions should be based on knowledge and facts.

Few people realize that one-tenth of the area of the United States is included in our national forests, or that the aggregate area of our fifteen national parks is nearly as large as Massachusetts. Only those who have seen the wonders of the national parks can appreciate the superiority of our own natural scenery over that of any other country.

While the prime purpose of this tour is to secure first-hand information, it will also afford an excellent opportunity for those who desire a vacation ranging from three weeks to nearly two months in extent in the open air and amid the most inspiring and instructive surroundings.

The tour will be under the auspices of the Massachusetts Forestry Association which has engaged the Bureau of University Travel to arrange the details and conduct the party.

The plan is meeting with general approval and an unexpected interest is being shown in the itinerary. Those

TREES
Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties.
Sturdy, choice stock that can be depended upon. Send for catalog and special trade prices.

The Bay State Nurseries
North Abington
Mass.

SHRUBS
This New England climate produces fine sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate

who wish to secure detailed information can obtain it by writing to the Massachusetts Forestry Association, 4 Joy street, Boston.

For the purpose of spreading the general knowledge of the national parks and national forests, two illustrated lectures will be given December 14, 1916, at 2 o'clock, at the Twentieth Century Club, 3 Joy street, Boston. The public is invited.

MASS. AGRICULTURAL COLLEGE NOTES

All classes in floriculture are working at bulb planting, both indoors and out this week. Junior classes are also trenching for sweet peas this week.

Thursday evening the Florists' & Gardeners' Club met to discuss the publication of an annual and the appointment of officers for the same.

The annual trip to A. N. Pierson's, Cromwell, Conn., scheduled for last Saturday, proved most successful. Tom Beers, M. A. C. '12, acted as guide and pointed out many most interesting things about the establishment. The great size of this establishment impressed the students very much.

The impression seems to be widely prevalent in trade circles that the Cottage Gardens Company's new carnation "Crystal White" is to be disseminated this season. The Company states that they are at a loss to know where this impression originated as it has never been their intention to send out Crystal White until next season and they never made any statement that could be construed otherwise. The only carnation they are sending out this year is Cottage Maid and they wish to assure the trade that Crystal White will not be on the market until the season of 1917-18.

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
HATBORO, PA.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. F. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jan St. Woburn Heights P. O. No 1 Woburn N. Y.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY. Small, medium and large sizes supplied. Price list now ready.

THE D. HILL NURSERY CO.
Evergreen Specialists. Largest Growers in America.

BOX 415, DUNDEE, ILL.

When writing to advertisers kindly mention HORTICULTURE.

BULBS BOXWOODS**AT AUCTION**

Do Not Forget Salesdays — Monday and Thursday
Consignments Solicited

JOHNSON & MILLANG, Inc., Auctioneers

Coogan Building, 55 57 West 26th Street, New York

(Under Cut Flower Exchange)

Salesdays Monday and Thursday at 10 A. M.

10,000 square feet devoted to our auction business

WRITE FOR CATALOGUE

PUBLICATIONS RECEIVED

Bailey's New Standard Cyclopaedia of Horticulture. Volume V, P. to R, inclusive, of this monumental work has been received from the publishers, The MacMillan Company, New York. A perusal of the volume only adds to our appreciation of the unprecedented service Dr. Bailey has rendered in placing such a comprehensive and authoritative treasury of horticultural thought, learning and achievement before the people. Vol. V. comprises pages 2423 to 3041. There are twenty beautiful page plates, several of which are in colors and the cuts used to illustrate the text run from No. 2694 to 3515. This shows an increase of 1449 pages and 1248 illustrations as compared with the contents of the corresponding volume in the old edition of the Cyclopaedia, which gives some idea of the immense work which has been put into this new edition. A new chapter on Planting alone fills 50 pages. Prunus occupies 22 pages as against 13 in the older edition, Pyrus 13 against 7, Rhododendron 18 against 9. The chapters on the Rose occupy 40 pages, to which ten collaborators have contributed.

No florist or gardener should think of getting along without owning a copy of the Cyclopaedia of Horticulture. The sixth and last volume will soon be available. The price for the full set is \$36.00. HORTICULTURE can supply it either by installments or complete at the publisher's price, \$6.00 per volume.

Tree Wounds and Diseases. Their Prevention and Treatment, by A. D. Webster. Thirty-two full page plates and other illustrations, large 8vo. \$2.50 net. J. B. Lippincott Company, Publishers, Philadelphia. The infirmities of trees and how to overcome them is a subject which has caused much anxiety and demanded incessant attention and study from time immemorial but so far as we are aware the volume now before us is the first work devoted exclusively to this important subject. That such a book is needed, all our readers know and at the present time when so many inexperienced operators are abroad in the land its appearance is especially to be welcomed. The author, A. D. Webster, Regents' Park, London, knows his subject in a scientific and thoroughly practical way, and this book is the summing up of his experiences in many years of work and observation. There can be no question that any one entrusted with or interested in the care of trees, ornamental or fruit, will find much of value to him in this lucid and thorough presentation of the dire results sure to follow from neglect of injured bark, poor pruning, fungus growth, insect ravages, bad soil and atmosphere effects, diseased branches, cavities, etc., and the means to be adopted for prevention and cure. The author has undertaken to bring home to those re-

sponsible for trees that with a small outlay of labor and expense, intelligently applied, the lifetime of old, historic or accidentally damaged specimens may be greatly extended. The illustrations are unusually good and the large type and clearness of the printed pages will make reading a pleasure especially to those whose eyesight is not of the best. It is a good book and well worth the price. Copies may be obtained from the office of HORTICULTURE at publishers' price.

The Page Company of Boston send out about this time each year a number of splendid books of wholesome, high-class fiction by clever writers, at popular prices, which find an enormous sale as holiday gifts. This company is doing a real service to the public in the publication of so many of these excellent stories and we never hesitate to recommend them to those of our readers who are looking for books to please the young and young-old people at Christmas time. Among this year's quota are the following:

The Pioneer Boys of the Columbia, as its title indicates, is a book for boys. It is a tale of life in the wilderness of the great Northwest by Harrison Adams, uniform with the five previous volumes of The Young Pioneer Series by this author, this book completing the set. The story is full of adventure and spirited action and it is appropriately illustrated with six full-page pictures by Walter S. Rogers. The narrative appeals irresistibly to every boy, but it is something more than mere fiction, being carefully founded upon fact as to conditions and experiences in the explorations westward from St. Louis following the purchase from France of the vast territory known as Louisiana. As the Boston Globe expresses it, "Such books are an admirable means of stimulating among the young Americans of today interest in the story of their pioneer ancestors and the early days of the Republic." Price \$1.25 net, \$1.40 postpaid.

Man Proposes, or the Romance of John Alden Shaw. By Eliot H. Robinson. Illustrations with frontispiece in color by Wm. Van Dresser. Here is a skilfully laid romance of more than passing interest, weird and almost tragic in some of its quickly changing scenes. Its action is centered in Boston and Newport principally and the realistic word pictures of the inside life, manners and gaieties of the summer society of the great watering place will be found full of absorbing interest. Price \$1.25 net.

The Violin Lady. A sequel to The Fiddling Girl and The Proving of Virginia. By Daisy Rhodes Campbell. This pretty little romantic story contains the adventures of the heroine of the two preceding publications and tells of her triumphs and hardships abroad, of her friends and her love affairs, and finally her wedding bells and return to

America. This volume has pronounced even far ahead of the earlier books in interest and charm. It is a bright, snappy story all through written in a delightful vein and the girls will like it. There are seven full-page plates and frontispiece in colors, by John Goss. Price \$1.25 net.

The Road to Le Reve. By Brewer Corcoran. Illustrations by H. Weston Taylor, with colored frontispiece. The scene of this narrative is laid in Maine. It is a story of society and the wilderness, and shows a thorough familiarity with both on the part of the author. The fishing club of the multimillionaires, whose interests spread out like the web of a spider, furnishes the setting for a romance combining an insight into the methods of modern American enterprise and finance with a fascinating love story full of youth, open air and adventure. Price \$1.25 net.

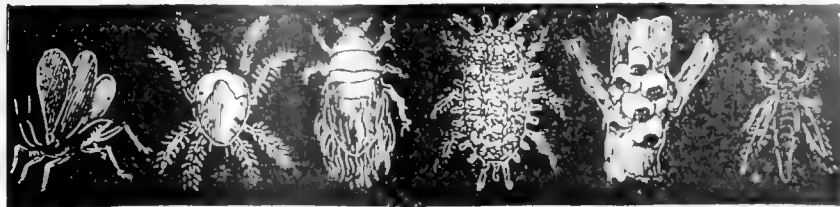
Anne's Wedding. By Iola May Mullins. Third in the series of The Blossom Shop Stories. The previous volumes have been warmly commended and this one is considered the best of the series. It is written in a style which is original and romantically ingenuous, and is very sunshiny and charming in its portrayal of life and customs in the South. These stories with their picturesque southern setting have charmed both young and old. The effect of its perusal is to make one feel that "the world is a pleasant place to live in." Price \$1.25 net; \$1.40 postpaid.

My Garden. By Louise Beebe Wilder. Doubleday Page & Co., publishers. This is an excellent book, written for the amateur by an amateur—an amateur who is far from being an amateur in horticultural knowledge, and deeply imbued with the gardening spirit and who, it is plain to see, has by practice and first-hand experience acquired a well-grounded perception of her subject far in advance of that possessed by many self-sufficient professionals. There are eighteen chapters. Their subjects, a list of which will give some idea of the scope of the book, are as follows: In the Making; In the Nursery; The Day Before Spring and the Next; May in the Garden; June Magic; July Problems; Waning Summer; Autumn Beauty; Border Roses and Climbers; Border Irises; The Lure of the Lily; Who's Who Among the Annuals; Shrubs; Flowering Trees in the Borders; Green Draperies; Trouble; Plants for Special Situations; The Herb Garden. Every florist and local nurseryman is called upon to give garden advice and answer innumerable questions asked by his customers. Why not answer them all by having this convenient book on sale and recommending it to all inquirers on gardening topics? It will not only serve this purpose but its distribution in any residential neighborhood

Hammond's Thrip Juice No. 2

REGISTERED

A Contact Insecticide, Useful and Reliable, Used for 30 Years in Greenhouses, and on Plants, Grape Vines, Trees and Shrubs



Some common Sucking Insects, magnified.

HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.

Fall Spraying "SCALECIDE" Does the Work Controls Leaf Curl Cleans up the Trees

Don't put off the dormant spray until the spring rush. The weather may be bad or the ground too soft. Spray this fall and make sure of controlling peach leaf curl, San Jose scale, pear psylla, apple canker, collar rot, etc. You can save trees now that would die before spring. Use "Scalecide." Better and cheaper than lime sulphur—cuts the labor

cost. Never injures trees, hands, face or pump. Cost of spray materials will advance before spring. Order now and save money. Write today for free booklet, "The Whys and Wherefores of Fall Spraying." B. G. PRATT CO., Manufacturing Chemists. Department 12. 50 Church Street, New York City.

will create new business in planting material and garden requisites. It sells for \$1.50.

Productive Poultry Husbandry. Second revised edition. By Harry E. Lewis, Poultry Husbandman of the New Jersey Agricultural Experiment Station. 329 illustrations. 536 pages. A complete and practical treatise on the breeding, feed, care and management of poultry, together with chapters on fattening, killing and preparing for market. There is no problem in any phase of practical poultry raising that is not thoroughly and clearly treated in this book. Because it deals entirely from the practical and utility view point it will appeal especially to the man, woman or youngster handling chickens. Every person with five or five thousand chickens will be glad to have the book. Published by J. B. Lip-

incott, Philadelphia. Handsome cloth binding. \$2.00 net.

Productive Bee Keeping, by Frank C. Pellett, Iowa Inspector of Apiaries—Here is a new book upon the bee industry that strikes the proper note in its comprehensive practicability and sanity. Mr. Pellett, the author, in his long experience as a successful honey producer, instructor to the profession and an official inspector of hives in a rich bee state has had a great opportunity to sift the good from the bad; he took the opportunity, and the result is a book which contains the best methods that have successfully met the greatest variety of tests in the greatest variety of conditions.

The work is an honest presentation of the material needed by the extensive producer who wishes to have it at hand for ready reference, the small producer who wants to study that he may make progress on the surest lines, by the beginner or student who wants to set up for himself and to do so upon the scientific basis that will bring the best returns. It contains the last word upon every subject connected with the industry and it is written in a manner easily understood and capable of being immediately applied in the work of the expert or the beginner.

This is the latest volume in the Lipincott Farm Manual Series, and that in itself is a sufficient guarantee of high excellence. The majority of the illustrations are from the author's original photographs or drawings,—they are of the highest type and give a pictorial presentation of way and methods. The handsome cloth binding is durable. 134 illustrations, 340 pages, 8vo. \$1.50 net.

The Annual Report of the Parks Department of the City of Calgary, Alberta, for the year 1915 has been received in typewritten form. From it we learn that this far-away city is

making rapid progress in the development of public reservations. During the year about twelve miles of new boulevard has been constructed and there is now a total of over fifty-two miles. The city nurseries have been economically managed and the report shows a profit of \$4,151.81 on their operation for the year. William R. Reader holds the office of parks superintendent.

Fifty-sixth Annual Report of the Board of Park Commissioners of the city of Hartford, Conn., for the year ending March 31, 1916. A model report in thoroughness and giving good evidence that the people of Hartford are well served in their recreation department. Illustrations interesting and of fine quality. There is a tabulated insert which will prove valuable for reference and comparison by any one interested in park maintenance.



IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON



NIKOTEEN

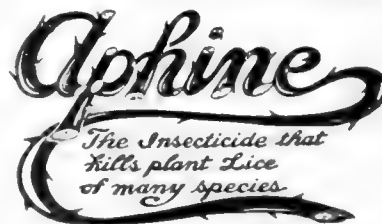
For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer For It.

NICOTINE MFG. CO. ST. LOUIS



The Recognized Standard Insecticide. A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co. MADISON, N. J.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

One Week's Imports.

Imports at the port of New York of horticultural material, for the week ending November 10, were recorded as follows:

Bulbs—France, \$398; Netherlands, \$18,806; England, \$783; Canada, \$340; Hongkong, \$88; Japan, \$12,873.

Plants—Belgium, \$74,491; France, \$96; Netherlands, \$20,826; England, \$1,828; Bermuda, \$99; Guatemala, \$133; Trinidad, \$430; Colombia, \$837. Red Clover Seed—France, \$3,185.

Grass Seed—Denmark, \$13,000; England, \$15,051.

Other Seeds—Denmark, \$1,596; France, \$10,651; England, \$2,275; Japan, \$1,056; Morocco, \$595; Spain, \$709.

Nitrate of Soda—Chile, \$320,400. Other Fertilizers—England, \$2,149; Scotland, \$163; Japan, \$4,593.

Douglas P. Laird, a gardener of the Edinburgh, Scotland, seed trade, who has held an important position with Henry A. Dreer, Philadelphia, for some time, goes to Thorburn's, New York, commencing November 17, in charge of the flower seed department. Mr. Laird is but 24; but he has had the right training and is bound to make good. We wish him well, and commend him to the kindly and courteous coterie that make the seed trade of New York. They will be nice to him, as he deserves—which goes without saying.

CATALOGUES RECEIVED.

J. L. Moore, Northboro, Mass.—Wholesale Price List of Dahlias and Gladioli.

D. Hill Nursery Co., Ind., Dundee, Ill.—Wholesale Trade List of Choice Stock for Florists.

Carter's Tested Seeds, Inc., Boston—"Your Winter Flower Garden." Folder of Bulb Collections for Outdoor and Indoor Planting.

A. H. & N. M. Lake, Marshfield, Wis.—Price folder of Seeds of Hardy Ornamental Shrubs, with plates of *Viburnum pubescens* and *Cornus alternifolia*.

Hassall & Co., Chase Side, Southgate, London, N. Eng.—Catalogue of Orchids. A descriptive price list of special plants under number, including many rare pieces.

Pittsburgh Cut Flower Co., Pittsburgh, Pa.—Christmas Catalogue of Flowers and Supplies for Florists. Printed in colors, handsomely illustrated, comprehensive and progressive in contents and style. Here is a catalogue worthy of careful reading by any up-to-date retail florist.

Westerbeek & Klyn, Sassenheim, Holland.—Trade Price List of Peonies,

SHAMROCK TRUE IRISH

Trade packet 25 cts., oz. \$1, ¼ lb. \$3, lb. \$10

5% Discount, Cash with Order.

ARTHUR T. BODDINGTON CO., Inc.
128 Chambers Street, New York



SEEDS for the FLORIST

ASTERS QUEEN of the MARKET.

The best extra early variety, large, double flowers, on long stems, in colors: Crimson, Dark Blue, Light Blue, Rose Peach Blossom, White.

Trade Packet, 20c., Oz., 75c.

Sweet Peas, Cyclamen, Primulas, Lily of the Valley, from Our Own Cold Storage Plant.

Our Trade List Mailed on Application.

FOTTLER, FISKE, RAWSON CO., THE SEED STORE BOSTON
Faneuil Hall Square

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes
Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of
Commerce Bldg., Boston, Mass.

Dahlias, Gladioli and Hardy Perennial Plants for fall 1916 and spring—summer 1917. A good catalogue of best selected species and varieties. Westerbeek & Klyn have an American address, 14 Stone street, New York.

Felix & Dykhuis, Boskoop, Holland—Wholesale Trade List and Catalogue of Nursery Stock—Season of 1916-1917. This publication presents a standard in catalogue quality and usefulness seldom reached in trade catalogues. It is a model in its class, unique in many features and typographically excellent in its make-up and illustrations. Much cultural information is conveyed in its tabulated columns. The contents are systematically arranged in eleven parts, including a "magazine section" information about import duties, etc., and there is a very copious index.

VISITORS' REGISTER.

Amherst, Mass.—Jens Jensen, Chicago.

Boston—Maurice L. Glass, New York; G. X. Amrhyn, New Haven, Conn.

Pittsburgh—Isaac Bayersdorfer, repr. H. Bayersdorfer & Co., Phila.; C. B. Knickman, McHutchison & Co., New York; M. Adler, New York.

Urbana, Ill.—M. Bebb, E. A. Bebb, W. K. Palmer, G. C. Klehm, and C. Jez, all University of Illinois graduates in Floriculture, were Home-Coming visitors on Saturday, Nov. 18.

Philadelphia—Arthur J. Deal, representing W. W. Johnson & Son, Bos-

ton, England; Harry O. May, Summit, N. J.; Benjamin Hammond, Beacon, N. Y.; Robert Pyle, West Grove, Pa.; W. W. Wilmore, Jr., Wheatridge, Col.; Raymond V. Kester, Williamsport, Pa.

Chicago—Mrs. Perry De Haven, Tulsa, Okla.; Mrs. M. E. Irby, Memphis, Tenn.; J. T. Commandros, Golden Rule Flower Shop, Minneapolis, Minn.; Geo. C. McCallum, Pittsburgh, Pa.; P. W. Peterson, Joliet, Ill.; Alois P. Frey, Crown Point, Ind.

Washington:—James A. Brown, Capitola, Cal.; W. R. Gray, Oakton, Va.; Oscar Haase, New York; Robert Craig, Charles E. Meehan, Robert Shoch, S. Price, all of Philadelphia, Pa.; W. J. Smart, Knight & Struck, New York; Charles Wiemann, Meyer & Co., New York; Mr and Mrs. Patrick Welch, Boston, Mass.

GLADIOLI

New Catalogue Ready

JOHN LEWIS CHILDS, Inc.
FLOWERFIELD, L. I., N. Y.

Mitchell's Distinctive Seeds

Catalogue free

518 Market St. — Phila.

Lilium Harrisii Bulbs

	Per 100	Per 1000
5 in. to 7 in.	\$4.50	\$36.00
7 in. to 9 in.	8.00	72.00

**PAPER WHITE NARCISSUS
GRANDIFLORUS**

Prices on Application

WE OFFER to FLORISTS a
CHOICE SELECTION of HYA-
CINTHS, TULIPS, Etc. Etc., for
forcing or outdoor planting.

Send us a list of your require-
ments and we will give you at-
tractive special prices.

J. M. THORBURN & CO.

53 Barclay Street
Through to 54 Park Place
NEW YORK CITY

KELWAY & SON

SPECIALIZE IN

SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or
Forward

Only Address, LANGPORT, Eng

Burpee's Seeds**PHILADELPHIA**

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

J. BOLGIANO & SON**WHOLESALE FIELD AND GARDEN SEEDS**

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragons on
the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.

PHILADELPHIA, PA.

My new Price List of

**WINTER-ORCHID-FLOWERING SWEET
PEA SEED**

Has been mailed. If you have not received
a copy, send me postal. Part of new crop
will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

**HOT-HOUSE
GRAPES**

Strong Planting Canes \$3.50 each
Strong One Year Canes 2.00 each

IN 14 VARIETIES, INCLUDING

**Black Hamburg, Gros Colmar, Madresfield
Court and Muscat of Alexandria**

R. & J. FARQUHAR & CO.
BOSTON, MASS.

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.**LILIUM GIGANTEUM**

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

ROMAN J. IRWIN

108 West 28th St., NEW YORK

SPECIAL OFFER

LILIUM FORMOSUM

8/11, 225 to a case.....	\$8.00 per 1000
9/10, 200 to a case.....	\$5.00 per 1000
11/13, 100 to a case.....	15.00 per case
LILIUM FORMOSUM—Black Stem	
8/10, 200 to a case.....	\$8.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
11/13, 100 to a case.....	10.00 per case

See Classified List for Seasonable Plants,
Rooted Cuttings, Seeds and Bulbs.
Write for Complete Stock Circular.
SATISFACTION GUARANTEED.

THOMAS J. GREY COMPANY

SEEDS, BULBS AND IMPLEMENTS

WHOLESALE AND RETAIL.

Reselected Strains in Seeds.

Improved styles in Implements.

Catalogue upon application.

29 So. Market Street

BOSTON, MASS**BURNETT BROTHERS**

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

SEEDS, BULBS, PLANTS

AND

Florists' Necessities

AMERICAN BULB CO.

172 N. Wabash Ave., Chicago, Ill.

LILIUM FORMOSUM**LILIUM HARRISII****LILIUM GIGANTEUM**

Prices on Application. Write for 1916
Bulb Catalog.

JOSEPH BRECK & SONS' CORP.

47-54 North Market St., Boston, Mass.

**W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS****Horticultural Sundries**

166 W. 23rd St., NEW YORK

GARDEN SEED

BET. CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
be quoted you upon application to

S. D. WOODRUFF & SONS

82 Day St., NEW YORK and ORANGE, CONN

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

Penn.
The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.
BOSTON

FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

MAX SCHLING

22 West 59th St.

Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York

Telephone 1889-1890 Columbus

Of Interest to Retail Florists

NEW FLOWER STORES.

Milwaukee, Wis.—B. Maidlander Third St.

Sandusky, O.—W. R. Parker, West Market St.

Revere, Mass.—James S. Tiernan, 331 Broadway.

Walla Walla, Wash.—Blossom Floral Co., Elks Building.

Oberlin, O.—Humm-Wainright Floral Co., West College St.

Roanoke, Va.—Wertz, Florists, removing to 213 S. Jefferson St.

New York, N. Y.—Angelo Dentale, 41 W. 28th St. (wholesale).

Chicago, Ill.—Mrs. Wm. Hutchinson, removing to 2208 W. Harrison St.

New Bedford, Mass.—Mr. Rex, Union St. H. V. Sowle, 249 Bowditch St.

Havana, Ill.—Havana Seed & Floral Co., Miss Ida R. Vogel, proprietor.

Minneapolis, Minn.—W. H. Boffending Co., removing to 7th St. and 2d Ave., north.

Rutherford, N. J.—Julius Roehrs Company are erecting a concrete and steel garage and service building 60 by 200 feet. in their nursery grounds. The plant houses are a beautiful and inspiring sight already at this early date and well worth a visit. There are twelve houses of the lovely bronzy leaved Begonia Mrs. Peterson in flower making a picture probably unequalled anywhere in the world. The orchid range is now between crops but the winter blooming species are bristling with buds.

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor.

F. R. PIERSON CO.

FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, - N. Y

Send Telegraph, Telephone or Mail orders for florist service in this vicinity to

Howard & Smith

853 SO. OLIVE ST.

Los Angeles, Calif.

Every Order sure to receive prompt and careful attention.

**JOHN BREITMEYER'S
SONS**

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUDE BROS CO
1214 F ST NW
WASHINGTON DC

GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE
National Capital

At your service to deliver Flowers or Designs on Order by Telegraph or otherwise. Prompt Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2780
Members Florists Telegraph Delivery

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD
NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction

MEMBER F. T. D. A.

CHICAGOSend Your Orders to
WILLIAM J.**SMYTH**Member Florists' Telegraph
Delivery Association**Michigan Ave. at 31st Street**Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1896 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1533.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Member Florists' Telegraph Delivery Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE125,000 Sq. Ft. of Glass
WORCESTER, MASS.**Flowers by Telegraph**

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State St.

Albany, N. Y.—The Rosery, 23 Steuben St.

Albany, N. Y.—William C. Gloeckner, 97 State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont St.

Buffalo, N. Y.—S. A. Anderson, 440 Main St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid Ave.

Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th St.

Cleveland, O.—The Smith & Fettes Co., 735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643 Broadway.

Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.

New London, Conn.—Reuter's.

New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.

New York—David Clarke's Sons, 2139-2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison Ave., at 48th St.

New York—Dards, N. E. corner 44th St. and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth Ave.

New York—Thos. F. Galvin, Fifth Ave., at 46th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.

Washington, D. C.—Gude Bros., 1214 F St.

Washington, D. C.—F. H. Kramer, 915 F St., N. W.

Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

REUTER'S Members Florists' Telegraph Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence
ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,**CLEVELAND**

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work

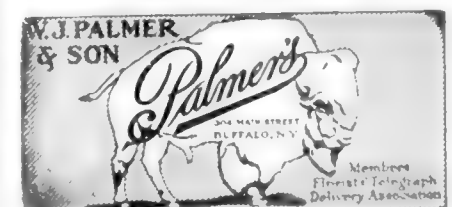
DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

NEWS ITEMS FROM EVERYWHERE

CHICAGO

The American Bulb Co. are busy as bees in their limited quarters, but stock moves so rapidly the small space does not matter. Just now winter berries are a special feature and everything in the way of baskets are filling the counters.

Miss L. A. Tonner has returned from Baconton, Ga., where she went to oversee the harvesting of the crop of pecans from the groves belonging to herself and sisters. Miss Tonner sells pecan orchards in addition to her wholesale cut flower and supply business.

Word has been received that the Christmas schooner, the Rouse Simmons, in charge of Mrs. Schunemann, is on its way with the usual load of Christmas greens. Mr. Schunemann lost his life on this boat three years ago and his widow and daughter took up the business.

A. Henderson reports the bulb season practically closed and stock has cleaned up well. He says all importations of lily of the valley pips must come from Holland this year, and as the Holland bulbs have never been regarded equal to the German it is for the growers this year to observe extra care in order to make up for it.

At Poehlmann Bros. everything is in readiness for a banner year in the supply department and orders are being placed for holiday stock. It seems as if the popularity of baskets is greater than ever and there are variations to suit all tastes. In the cut flower department chrysanthemums are still holding their own and will for some time. Orchids are scarce now, but they are expected to be in good supply for the holidays.

Chicago visitors to the Chrysanthemum Show at Urbana, say the University of Illinois showed three hundred varieties of chrysanthemums, making a fine display. The floricultural department of the big school is attracting many students, a fact which augurs well for the florists of the near future. After completing the course, these students usually go out and take any position available with large growers, where they add experience to their scientific training, before going into business for themselves.

That the German two-year-old lily of the valley bulbs will produce just as large and strong stems with equally large bells as the one-year pips, is the statement of Phil Schupp, manager of the J. A. Budlong Co.'s wholesale store, and he backs up the assertion by showing the stock received from their greenhouses each day. He says, however, that the loss is much greater in the pips and the advanced price this year makes the profit no more than in other years when lily of the valley sold for three and four cents. The Budlong Co. has enough of the German pips to last till June next.

The following is a copy of a letter which has been sent out by Fred Lautenschlager:

"At the meeting of the Chicago Florists' Club at the Hotel Mortimer, November 16th, my name was placed in nomination for president, an honor I deeply appreciate.

"As the name of one of my dear friends was also placed in nomination for this office, I have decided to request that my name be withdrawn in this connection, in order to make unanimous the nomination and the election of my esteemed friend, Mr. Wm. H. Amling, of Maywood, Ill., for president of the Chicago Florists' Club.

"Mr. Wm. H. Amling is a gentleman of noble character, one who is truly regardful for the interests of others, and one who has at heart the best interests of this Club. He is a gentleman who is capable of fulfilling the office as president with credit and honor."

PHILADELPHIA

Paul Huebner has just returned from a visit to Rutherford, N. J., and speaks very highly of the foliage and ornamental plants seen on his visit, especially of those at the establishment of the Julius Roehrs Co.

Samuel S. Pennock, John H. Dodds and Robert Craig went from Philadelphia to Baltimore to help in the judging department of the "Maryland Week,"

One Day Earlier

On account of the Thanksgiving Holiday falling upon our regular Press Day, HORTICULTURE will go to press on Wednesday afternoon, November 29, one day earlier than usual.

Advertisers and Correspondents will please take due notice. Communications of immediate importance may be telegraphed "Press Rate, Collect," up to Wednesday noon.

which included a flower show. The daily press of Baltimore showed them in the limelight photographically the next day. One of these pictures is worth reproducing for reasons which will appear later, so we have a copy under way for HORTICULTURE.

A meeting of the American Rose Society attended by about twenty of the active executive members, mostly local but four or five from a distance, was held in the P. H. S. library on the 22nd inst. The special business was to arrange for the national rose show to be held in Philadelphia next spring. President Samuel S. Pennock occupied the chair and Secretary Hammond was also on hand. A full official report of the proceedings will follow, in due course.

President Samuel S. Pennock, of the American Rose Society, was much pleased on the 18th inst when he received another \$100 subscription to the guarantee fund for the great National Rose Show, which is to be held in Philadelphia next spring. This makes now the full amount of five thousand dollars which is considered ample backing for an enterprise of community importance, but they are not going to stop at that and more guarantees will be welcome. Come on in with your hundred. The next executive meeting will be held at Horticultural Hall on the 22nd inst, and more foundation work, broad and deep, will be instituted.

WASHINGTON

Among the judges of the Baltimore flower show was David J. Grillbortzer, ex-president of the Florists' Club of Washington.

The District Commissioners have appointed Clifford Lanham, assistant superintendent of trees and parkings, as superintendent to succeed his father, the late Trueman Lanham. Mr. Lanham is a very capable man and has a thorough knowledge of forestry and horticulture.

The delivery automobile operated by John McCabe was badly damaged last week when a big touring car crashed into it from in back. Young McCabe, who works for his father, M. J. McCabe, escaped unhurt but several of the passengers in the pleasure car received serious injuries. The driver of the latter was arrested.

The office of the assessor of the District of Columbia is distributing schedules to be filled out by the florists and returned to enable the District government to arrive at the proper tax to be assessed each for the rental of vaults under the sidewalks and streets. The Commissioners are directed to assess and collect rent for all space occupied under the sidewalks.

The Washington florists are co-operating in the movement for the conservation of wrapping paper suggested by the Washington Evening Star. There is absolutely no need for the wrapping of flower boxes, yet some of the stores do this before making even a wagon delivery. Attention is also being paid by the florists to the use of tissue and waxed paper, both exceedingly hard to get and the price excessively high.

At the annual session of the National Grange, P. of H., in Washington on November 14, Richard Vincent, Jr., Maryland's distinguished citizen, of Whitmarsh, Md., was appointed on the committee to receive President Wilson and family and escort them to the hall. This unique honor was gracefully carried out by Mr. Vincent, he escorting the President, and President D. Patterson of the Maryland Agricultural College escorting Mrs. Wilson, while the audience stood and the band played "Hail to the Chief."

The bureau of plant industry of the Department of Agriculture is planning for an amaryllis show to be held during the latter part of February or first of March. This will prove an unprecedented treat for the flower lovers of Washington, and the hundreds of thousands of people who will come here to view the inaugural parade. It is expected that there will be 1,500 blooming plants in the display. It is said that the show will be distinctive also in that these are all seedling plants and are crosses from some of the best blooms in the exhibition of four years ago.

The event of the week in Washington was the chrysanthemum show at the store of Gude Bros. Company. This is conceded to be the finest ever held by the firm and certainly the at-

ALWAYS LEADERS!

When you buy Bayersdorfer & Co. goods you get the best in the world.

BUY YOUR FALL SUPPLIES NOW

BASKETS BASKETS BASKETS

Chrysanthemum Baskets in Japanese novelty tints.
RED—RED—RED—specialties for Thanksgiving.

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Hampers and Flower Bowls.

Stock up now and have the goods to show customers. Send for prices and see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

tendance has exceeded that of any other year because of the fact that there were nine agricultural societies in session here during that time. Chrysanthemum William Turner attracted by far the most attention. Throughout the establishment the walls and ceiling were masked with ferns and vines. Asparagus and southern smilax were used to outline the large mirrors. Half baskets attached to the mirrors held snapdragon in three colors and pompons. The main display included Amorita, Major Bonnaffon, Nagoya and Golden Wedding, and the vases and baskets of these were banked with ferns and Glory of Cincinnati begonias. In the center of the store at the front was a tall basket containing a fountain with running water illuminated by an electric light in the center. In the window was another fountain and electric light, back of which was an aquarium filled with aquatic plants and goldfish. In the workshop was a very attractive display of American Beauty and other roses, chrysanthemums, snapdragons and begonias, and a similar display was made in the conservatory. Throughout the store were myriads of colored electric lights and in the balcony a Victrola machine furnished music and added to the singing of half a dozen or more canaries. In the balcony there was also a frame displaying a basket of American Beauty roses.

NEWS NOTES.

Evansville, Ind.—C. E. Gyseman and C. P. Beard have started in the nursery business.

Pittsburgh—Miss Eliza McKinley, head saleswoman for Randolph & McClements, has returned after a several months' leave of absence.

In the annual report of President Aley, of the University of Maine, to the Governor and Council, the need of a new horticultural building and greenhouse is urged.

Obituary

W. H. Donohue.

W. H. Donohue, aged 28 years, well-known among the florist trade of New York and Boston, who for a while several years back conducted a retail store at 2 West 28th street, died suddenly on November 15. His father, Fred. Donohue, formerly in the retail florist business in New York, and his late uncle, gardener on the Jessup estate, Lenox, Mass., are well-known. He leaves a widow.

John H. Muller.

John H. Muller, 74 years old, of 417 Pulaski St., Brooklyn, N. Y., a retired florist, died Nov. 13th, from a complication of diseases. Mr. Muller was born in Germany and came to this country when 18 years old. For many years he did a large wholesale and retail business and grew his own flowers. His retail store at Pulaski St. and Stuyvesant Ave. is now carried on by his son. He is survived by his widow, five daughters and one son.

T. C. Joy.

Thomas C. Joy, of the Joy Floral Company of Nashville, Tenn., died suddenly from an attack of heart disease on the morning of Nov. 10. Mr. Joy was 54 years of age, having been born in Goderich, Ontario, in 1862. He has been in the florists business in Nashville since 1878, and was a gentleman of very fine character. He was president of the Tenn. State Florists Society at the time of death. He leaves a widow, three sons and five daughters.

George G. Copp.

George Gordon Copp, botanist, and formerly a newspaper writer, died Monday, Nov. 20, at his home in New York. He was sixty-three years old.

As a young man Mr. Copp was a reporter. In 1898, having been a close student of floriculture, he became associated with the New York Botanical Gardens and in 1906 he was sent to Colorado to make a botanical investigation and survey of that region. He remained there and in other parts of the West, pursuing his work, until recently. Mr. Copp contributed numerous articles on the floriculture of the West to leading magazines. He was a founder of the Bronx Society of Arts and Sciences and a member of the Civic League of Staten Island.

BOSTON.

E. D. Kaulbach, of E. D. Kaulbach & Son, Malden's enterprising florists, states that they have just received a shipment of over 5000 Azalea indica from Belgium, and that they are all in excellent condition.

The pretty flower show at Penn's attracted a large crowd of visitors. The window display of floral baskets was especially brilliant. It was an excellent publicity stunt. Prizes were awarded to Wm. R. Nicholson, Waban Rose Conservatories, Thos. A. Cox, J. Frank Edgar and Thomas Roland.

The Boston Browning Society proposes that Boston have a Browning garden which will contain all the plants mentioned in the poetry of Robert Browning, similar to the Shakespeare garden in Central Park, New York city, which includes all the botanical references in the works of the great dramatist. It has been suggested that the new Fenway garden be utilized as the Browning garden.

Gordon Fisher, of Woburn, Mass., and Miss Gladys McKone were married at Dover, N. H., on November 15. Mr. and Mrs. Fisher will reside in Woburn, where Mr. Fisher is engaged in the greenhouse business.

BOUVARDIA

The double pink and white variety, stems 18 to 24 inches long. Something exceptionally fine. The best stock \$6.00 per 100.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E.G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 3860 Madison Square

WOODROW & MARKETOS

WHOLESALE

Plantsmen and Florists

37 and 39 West 28th St., NEW YORK



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262 B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Nov. 23		ST. LOUIS Nov. 20		PHILA. Nov. 20	
Roses						
Am. Beauty, Special	25.00	to 35.00	40.00	to 50.00	40.00	to 50.00
" " Fancy and Extra	12.00	to 20.00	20.00	to 30.00	25.00	to 35.00
" " No. 1 and culls	2.00	to 6.00	.....	to 10.00	3.00	to 20.00
Russell, Hadley	2.00	to 10.00	3.00	to 15.00	3.00	to 20.00
Killarney, Hillingdon, Ward, Extra	4.00	to 6.00	6.00	to 8.00	4.00	to 8.00
Ordinary	1.00	to 2.00	2.00	to 4.00	1.00	to 4.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 8.00	.....	to 10.00	4.00	to 8.00
Ordinary	1.00	to 2.00	.....	to 10.00	1.00	to 4.00
Ophelia, Mock, Sunburst, Euler, Extra	3.00	to 8.00	4.00	to 5.00	4.00	to 10.00
Ordinary	1.00	to 2.00	3.00	to 4.00	1.00	to 4.00
Carnations	1.00	to 2.50	1.50	to 2.00	1.00	to 3.00
Cattleyas	35.00	to 75.00	.....	to 50.00	50.00	to 75.00
Dendrobium formosum	.....	to 50.00	.....	to 50.00	60.00	to 75.00
Lilies, Longiflorum	8.00	to 10.00	.....	to 10.00	5.00	to 8.00
Lilies, Speciosum	.....	to 10.00	.....	to 10.00	.....	to 10.00
Lily of the Valley	4.00	to 5.00	.....	to 6.00	3.00	to 6.00
Snapdragon	1.00	to 3.00	.....	to 10.00	8.00	to 8.00
Narcissi, Paper White	2.00	to 3.00	3.00	to 4.00	2.00	to 3.00
Chrysanthemums	4.00	to 10.00	5.00	to 25.00	3.00	to 25.00
Violets	.75	to 1.50	.....	to .50	.25	to 1.00
Marguerites	.50	to 1.00	.....	to 1.00	.50	to 1.50
Gardenias	.....	to 50.00	.....	to 1.00	20.00	to 30.00
Adiantum	.....	to 1.00	.....	to 1.00	.75	to 1.00
Smilax	12.00	to 20.00	.....	to 15.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	20.00	to 35.00	25.00	to 35.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568 570 WASHINGTON STREET - BUFFALO, N. Y.

J.A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

BOSTON The demand has not shown any increase or snap this week but prices have stiffened on some things, due entirely to local or isolated causes. Violets have made the customary phenomenal jump on account of football excitement. Carnations are in rather small supply but have not increased in market value. Roses have drawn the lines a bit tighter but there seems to be a sufficiency for all needs except in the case of American Beauty which seems to fall a little short of the immediate outlet. Chrysanthemums are in a bad plight. No grower in this section has made any profit on chrysanthemums this season, if we are any judge. There are too many of them even at the very low price at which they may be had. Thanksgiving Day trade is looked forward to as a little bracer in the way of demand and price, but our advice is to "hold up nothing."

CHICAGO A slight increase in the demand and a small decrease in supply, along with colder weather has worked quite a change in the market during the past week. The number of chrysanthemums is still great but not so hopelessly out of proportion to the wants of the buyers. Some of the larger varieties are now in bloom and probably the best prices will come with the closing days of the season. The big flowers are holding back the sales of lilies and there are quantities of them on the counters in the wholesale houses. Roses are equal to the demand always now and somewhat in excess in certain varieties. Mrs. Russell is showing quite a good many of low grade among the short lengths but the long ones are very fine and most growers are cutting heavily. Pussy willows are very welcome to those who are seeking novelties and many were shipped in from the south this week and mostly sold readily. Lily of the valley maintains its high price, but buyers have become accustomed to it and when it is really needed, six cents comes as readily now as three did a year ago. There are too many carnations for the growers to receive large returns, which is different from last fall. Green is in good supply and the ilex or winterberry is in every store.

The glut in the market and the spring-like weather continue, the latter, however, interrupted by a few days of cold weather last week. Roses are in a good supply. The chrysanthemum market is still much glutted. Carnations are very plentiful and there are some excellent blooms for the time of the year. Neither lilies nor callas find a very active market. Receipts of lily of the valley, sweet peas and orchids are sufficient.

NEW YORK It seems almost superfluous and unnecessary to use up good paper and ink, in these days of kiting cost, with remarks about the cut flower situation in this market as it now stands. It is and has been for several weeks in a "rag-tag and bob-tail" condition which words fail to adequately describe and a description of which can serve no useful purpose.



BEAUTIES

With cooler weather the quality has improved wonderfully. Crisp, solid, well colored flowers they are.

	Doz.	1000
Special,	\$6.00	\$50.00
Fancy,	5.00	40.00
Extra,	4.00	30.00
First,	3.00	20.00
Second,	2.00	15.00

Booking orders now for Christmas. Write for quotations.

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of **PHILADELPHIA**

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE **WASHINGTON**
Franklin & St. Paul Sts. 1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Nov. 20		CHICAGO Nov. 20		BUFFALO Nov. 20		PITTSBURG Nov. 20	
Roses								
Am. Beauty, Special.....	35.00	to 40.00	35.00	to 40.00	20.00	to 25.00	25.00	to 35.00
" " Fancy and Extra.....	20.00	to 30.00	21.00	to 35.00	12.00	to 15.00	15.00	to 20.00
" " No. 1 and culls.....	6.00	to 15.00	5.00	to 10.00	4.00	to 10.00	8.00	to 12.00
Russell, Hadley.....	8.00	to 12.00	5.00	to 20.00	8.00	to 10.00	4.00	to 12.00
Killarney, Hillingdon, Ward, Extra	8.00	to 10.00	6.00	to 10.00	6.00	to 8.00	8.00	to 12.00
" " Ord.	4.00	to 6.00	3.00	to 5.00	3.00	to 6.00	4.00	to 6.00
Arenburg, Radiance, Taft, Key, Ex.	8.00	to 10.00	6.00	to 10.00	6.00	to 8.00	8.00	to 12.00
" " Ord.	4.00	to 6.00	3.00	to 5.00	3.00	to 6.00	4.00	to 6.00
Ophelia, Mock, Sunburst, Euler, Ex	8.00	to 12.00	6.00	to 10.00	6.00	to 8.00	8.00	to 12.00
" " Ord.	4.00	to 6.00	3.00	to 5.00	3.00	to 6.00	4.00	to 6.00
Carnations								
Cattleyas.....	60.00	to 75.00	60.00	to 75.00	50.00	to 60.00	60.00	to 75.00
Dendrobium formosum.....	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00
Lilies, Longiflorum.....	12.00	to 15.00	10.00	to 12.00	8.00	to 12.00	10.00	to 15.00
Lilies, Speciosum.....	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00
Lily of the Valley.....	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00
Snapdragon.....	4.00	to 6.00	4.00	to 6.00	3.00	to 6.00	4.00	to 6.00
Narcissus, Paper White.....	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00
Chrysanthemums.....	10.00	to 25.00	10.00	to 25.00	10.00	to 25.00	10.00	to 25.00
Violets.....	75.00	to 1.00	75.00	to 1.00	75.00	to 1.00	75.00	to 1.00
Marguerites.....	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00
Gardenias.....	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00
Adiantum.....	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00
Smilax.....	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plu. & Spreng. (100 Bhs.)	25.00	to 50.00	25.00	to 50.00	25.00	to 50.00	25.00	to 50.00

Football games and Thanksgiving Day call are looked to for some help on limited lines and on all sides the end of the chrysanthemum tide is confidently expected to change the aspect of the market but thus far nothing has happened to occasion either hopeful glee or gleeful hope. Violets have taken an abnormal jump skyward, but this is not to be regarded as having any permanent effect. With the exception of these and good cattleyas and to a lesser extent American Beauty roses, market values are very low as quoted and much lower as finally realized.

PHILADELPHIA

There was a slight improvement in the market here last week especially toward the wind-up. But it was only slight and the situation is nothing to brag of as yet. Lacks the snap and vim that is usually looked for at this time of year. The flush of the chrysanthemum influx is reached, however, and the mightiest of the cuts are now out of the way so that all round con-

ditions for the staples in other lines should improve. There are still plenty of Bonnafon, Razer, Turner and other mid-season favorites around, also a few of a good pink called Brock. Very few bronze. There seems to be an opening for a good bronze to fill in along about this date. The supply of roses has eased up considerably all along the line except on American Beauties. The latter are more plentiful with demand rather light. Russell is probably the best selling of all at present. The carnation supply also shortened up a little; fine quality; demand nothing wonderful. Orchids are getting scarcer. Cattleyas touched the market on the twentieth and are likely to go higher. Violets have greatly improved in quality and are in good demand. Lilies, both longiflorum and rubrum, go slow. Lily of the valley is rather scarce and in good demand. Asparagus and other greens are now going a little better as the autumn foliage is out of the way at last.

Continued on page 712

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street
Telephone No. 755 Farragut
New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE 608 FARRAGUT NEW YORK
, 609

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.
Tel. 1583 / 1583 / Mad Sq. 119 W. 28 St., New York
5833

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS
8 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.

Wholesale Commission

READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE 2281 FARRAGUT 131 West 28th St., NEW YORK CITY
3089

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.
WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US
Prices Right. Consignments Solicited. Telephone Connection

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, NEW YORK

Telephone 2483 Farragut

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST VALLEY ALWAYS
GRADE OF GARDENIAS, DAISIES, ROSES, CARNATIONS
ON HAND

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones 1654
1655 } Madison Square

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

Last Half of Week
ending Nov. 18
1916

First Half of Week
beginning Nov. 20
1916

American Beauty, Special	15.00 to 25.00	15.00 to 40.00
" Fancy and Extra	10.00 to 15.00	10.00 to 15.00
" No. 1 and culls.	2.00 to 8.00	2.00 to 8.00
Russell, Hadley	2.00 to 10.00	2.00 to 10.00
Killarney, Hillingdon, Ward, Extra	2.00 to 5.00	2.00 to 5.00
" Ordinary	.50 to 2.00	.50 to 2.00
Arenburg, Radiance, Taft, Key, Extra	3.00 to 6.00	3.00 to 6.00
" Ordinary	.50 to 2.00	.50 to 2.00
Ophelia, Mock, Sunburst, Euler, Extra	3.00 to 6.00	3.00 to 6.00
" Ordinary	.50 to 1.00	.50 to 1.00
Carnations	1.00 to 2.00	1.00 to 2.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for doing
our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK
Phones 2036, 2037, 558 Farragut

Frank H. Traendly Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797, 798, 799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality

114 West 28th Street
NEW YORK

**HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS**

55-57 West 26th Street

Telephones, 13-8510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

BOXWOOD SPRAYS QUALITY IS ECONOMY Especially in the buying of OUR BOXWOOD SPRAYS

That's why so many florists and storemen insist on using Boxwood Sprays. They come from the OLD SOUTHERN PLANTATIONS, where they have been used for generations. You can use every spray. We guarantee it. To Consumer Price \$7.50 PER 100 LBS.

Also ask for "CHRISTMAS SUPPLIES." It offers suggestions for the coming season.

PITTSBURGH CUT FLOWER CO., 116-18 Seventh St., Pittsburgh, Pa.

VIOLETS

B. S. SLINN, Jr., 55-57 W. 26th St. NEW YORK

Established 1888

Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists
110 West 28th St., New York
We Solicit Consignments of New
England Grown Novelties.

VIOLET GROWERS

Before making your shipping arrangements for the coming season please correspond with me. I HANDLE VIOLETS ONLY and give my entire time and attention to the interests of my violet growers.
Write Now

CLARENCE SLINN

123 W. 28th Street

NEW YORK

Beechwood Heights Nurseries

Importers and Growers of

ORCHIDS

Cut Flowers of All the Leading Varieties in their Season.

THOMAS YOUNG, Jr., Proprietor
BOUND BROOK, N. J.

Send Flower Consignments to

L. B. NASON

Wholesale Florist

116 West 28th St., NEW YORK CITY

SHIPPING ORDERS CAREFULLY
FILLED.

Correspondence solicited.
Telephone, Farragut 2245.

Flower Market Reports

(Continued from page 711)

Stock has shortened PITTSBURGH up quite a little with considerably fewer blooms than a week ago. However, supplies have been ample to meet the demands of a busy season and prices have been satisfactory all around. Chrysanthemums have been not only plentiful but of particularly fine quality. Likewise, the supply of roses and carnations has been all that could be desired. On the other hand, lilies are not plentiful and lily of the valley continues very scarce.

The market is not quite ST. LOUIS so over crowded this week. Chrysanthemums have stiffened somewhat in price. Some extra fancy blooms are arriving and will be in good shape for Thanksgiving. Bonnafton in yellow and Turner in white have the best call. A few dark red are in but do not have

(Continued on page 712)

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A.M.

HERMAN WEISS WHOLESALE FLORIST

Can handle shipments of growers' product satisfactorily. Would like to hear from Growers of Daisies, etc., for the New York trade.

106 West 28th St., NEW YORK
Tel. Farragut 3066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Nov. 18 1916		First Half of Week beginning Nov. 20 1916	
Cattleyas	20.00	to 75.00	20.00	to 75.00
Dendrobium formosum	.....	to 50.00	.....	to 50.00
Lilies	2.00	to 4.00	2.00	to 4.00
Lily of the Valley	3.00	to 5.00	3.00	to 5.00
Snaphragon	1.00	to 2.00	1.00	to 2.00
Chrysanthemums	4.00	to 25.00	4.00	to 25.00
Violets	.50	to .75	.50	to 1.00
Gardenias	25.00	to 40.00	25.00	to 40.00
Adiantum	.25	to .50	.25	to .50
Smilax	8.00	to 15.00	8.00	to 15.00
Asparagus Plumosus, & Spreng (100 bunches)	10.00	to 25.00	10.00	to 25.00

ORCHIDS - - GARDENIAS

HEADQUARTERS for the entire output of the
BEECHWOOD HEIGHTS NURSERIES, of Bound Brook, N. J.

PAUL MECONI—Wholesale Florist—NEW YORK

Telephone Nos. 3864 and 5364 Madison Square

57 WEST 26th STREET

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 5413-5801

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

82 Otis Street, 2 Winthrop Square
BOSTON, MASS.

Telephone 2618-2617-2618, Main.

William Stuart Allen Co.

Commission Merchants in

CUT FLOWERS

53 West 28th Street, NEW YORK

Telephone—356 Madison Square.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK
Telephone, Madison Square 5206

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of
Good Stock Solicited

111 W. 28th St., - NEW YORK

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 167 & 3058 Farragut 118 West 28th Street
NEW YORK

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display Advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

AUCTION SALES.

MacNiff Horticultural Co., New York City.
Azalea Indica.

Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.

Johnson & Millang, Inc., New York City.
Bulbs and Boxwood at Auction.
For page see List of Advertisers.

AZALEAS

P. Onwerkerk, Hoboken, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price-list.

JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS.

Mrs. J. A. Peterson (New), 2 1/4 in. pots, \$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.

"King Ideal" Boiler.
For page see List of Advertisers.

Hitchings & Co., New York City.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

August Rolker & Sons, New York City.
For page see List of Advertisers.

BOX TREES—Standards, Pyramids and Bush. Price list on demand.

JULIUS ROEHRS CO., Rutherford, N. J.

BOXWOOD SPRAYS

Pittsburgh Cut Flower Co., Pittsburgh, Pa.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
Lilium Harrisii, Narcissus, Hyacinth and Tulip Bulbs.

For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
French and Dutch Bulbs.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
French, Japan, Holland and Cold Storage Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc., New York City.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

WESTERBEEK & KLYN,

SASSENHEIM, HOLLAND.
Write for prices on all kinds of bulbs to 14 Stone St., New York.

CARNATIONS

Cottage Gardens Co., Inc., Queens, N. Y.
New Carnation Cottage Maid.
For page see List of Advertisers.

F. Dörner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

R. Vincent, Jr. & Sons Co., White Marsh, Md.

Pompon Chrysanthemums.
For page see List of Advertisers.

CHRYSANTHEMUMS—Continued

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue for 1916.
For page see List of Advertisers.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Or Frank Dinda, Farmingdale, N. Y.
Chrysanthemum—Alex Guttman.
For page see List of Advertisers.

Chrysanthemum Stock Plants: Early Frost, Early Snow, Halliday, Razer, Bonaffon, Enguehard, Oconto, 4c. each. Cash, please. FRANK LEITH & SON, Haverhill, Mass.

CINERARIAS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

ORDERS BOOKED ANY TIME
For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanmaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Choice Flowering and Foliage Plants.
Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

For Plants and Cuttings get our prices before ordering elsewhere. Our guarantee with every order. Write for a copy of our latest Plant Bulletin.

Asparagus	Cyclamen	Primula
Begonias	Daisies	Smilax
Bulbs	Dracena	Snapdragons
Calceolaria	Ferns	Violets
Calendula	Geraniums	
Cineraria	Hydrangeas	

S. S. PENNOCK-MEEHAN COMPANY,
Philadelphia, 1608-1612 Ludlow St.
Baltimore, Franklin and St. Paul St.
Washington, D. C., 1216 H St., N. W.
New York, 117 W. 28th St.

FERNS

A. M. Davenport, Watertown, Mass.
Small Ferns for Dishes.
For page see List of Advertisers.

R. Vincent, Jr., & Sons Co., White Marsh, Maryland.

Boston Ferns.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

Joseph Heacock Co., Wyncote, Pa.
For page see List of Advertisers.

For List of Advertisers See Page 691

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FLORISTS' PLANT STOCK

Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums, S. A. Nutt, 2 in., \$2.00 per hundred, \$18.00 per thousand; rooted cuttings, \$12.00 per thousand. Cash. Also few white cuttings and 2 in. W. E. ALLEN, Leominster, Mass.

GLADIOLI

John Lewis Childs, Flowerfield, L. I., N. Y.
New Catalogue.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

Glass 6 x 8, 8 x 10, 10 x 12, 10 x 14, \$1.65 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish goods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GRAPEVINES

Hot House Grapevines.
R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.
Pecky Cypress.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION—Cont.

Hitchings & Co., New York City.
Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit, Mich.

For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

HOSE

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co., Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

HYDRANGEAS

Anglin & Walsh Co., Williamsbridge, N. Y.
Otaksa and Avalanche.
For page see List of Advertisers.

INSECTICIDES

Hammond's Paint & Slug Shot Works, Beacon, N. Y.
Hammond's Thrip Juice No. 2.
For page see List of Advertisers.

Aphine Manufacturing Co., Madison, N. J.
Aphine.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

B. G. Pratt Co., New York City.
Scalecide.
For page see List of Advertisers.

KENTIA SEED

M. Hutchison & Co., New York City.
For page see List of Advertisers.

LILY BULBS.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Lilium Harrisii Bulbs.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Special Offer Japan Lily Bulbs.
For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
Lilium Formosum Bulbs.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Lilium Giganteum.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hohmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.
Hathoro, Pa.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

R. & J. Farquhar & Co., Boston, Mass.
Hot House Grapevines.
For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

ORCHID PLANTS

Beechwood Heights Nurseries,
Round Brook, N. J.
Importers and Growers of Orchids.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Francisco Delgado Q., Bogota, Colombia.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

PALMS

Joseph Heacock Co., Wyncote, Pa.
For page see List of Advertisers.

PANSIES

H. P. Beers, Greens Farm, Conn.
Giant Pansies, Seeds and Plants.
For page see List of Advertisers.

William Sim, Cliftondale, Mass.
For page see List of Advertisers.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

PEONIES

F. J. Grootendorst & Sons, New York City.
Herbaceous Chinese Peony Lord Kitchener.
For page see List of Advertisers.

Peonies. The world's greatest collection,
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PIPE AND FITTINGS.

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. T. Howard, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

PRIMULAS

William Sim, Cliftondale, Mass.
Sim's Hybrid Yellow Polyanthus.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Hardy Roses.
For page see List of Advertisers.

ROSES—Continued

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.**SASH**

Standard Hot Bed Sash with cross bar,
80c. each; lots of 25 and over, 75c. each.
Satisfaction guaranteed or money refunded.
Glass 6 x 8, 8 x 10, 10 x 12 or 10 x 14. \$1.65
per box of 50 sq. ft. C. N. ROBINSON &
BRO., Dept. 29, Baltimore, Md.

SCALECIDE

B. G. Pratt Co., New York City.
For page see List of Advertisers.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

SEEDS

Clematis paniculata, Stokesia cyanea and
other seeds. BENJ. CONNELL, Florist,
Merchantville, N. J.

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Shamrock Seed
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
Gold Medal Cyclamen Seed

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Lochner & Co., New York City.
For page see List of Advertisers.

Amt. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Seeds, Selected Strains.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
For page see List of Advertisers.

Roman J. Irwin, New York City.
New Crop Florists' Seeds.
For page see List of Advertisers.

SEEDS—Continued

S. D. Woodruff & Sons, New York City and
Orange, Conn.
Garden Seeds.

For page see List of Advertisers.

Fottler, Fisk, Rawson Co., Boston, Mass.
Seeds for the Florist
For page see List of Advertisers.

SHAMROCK SEED

Arthur T. Boddington, New York City.
For page see List of Advertisers.

SPHAGNUM MOSS

SAVE MIDDLEMAN'S PROFIT. I sell
standard size 5-bbl. Bale Moss for \$1.15,
10 bales for \$10.00. Cash with order, please.
R. C. DICKENS, Staffordville, N. J.
Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.

For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VIOLETS

Clarence Slinn, 123 West 28th St., New York
City.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

For List of Advertisers See Page 691

WHOLESALE FLORISTS Buffalo, N. Y.

William F. Kasting Co., 568-570 Washing-
ton St.
For page see List of Advertisers.

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 264-266
Randolph St.
For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
For page see List of Advertisers.

Hentz & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Traendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

Paul Meconi, 57 West 28th St.
For page see List of Advertisers.

Woodrow & Marketos, 37 and 39 W. 28th St.
For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 53 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Guttman & Raynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunther Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

George W. Crawbuck Co., 47 West 28th St.
For page see List of Advertisers.

William Stuart Allen Co., 53 West 28th St.
For page see List of Advertisers.

L. B. Nason, 116 West 28th St.
For page see List of Advertisers.

WHOLESALE FLORISTS New York—Continued

Clarence Slinn, 123 West 28th St.
For page see List of Advertisers.

B. S. Slinn, Jr., 55-57 West 26th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ransstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.

WANTS, FOR SALE, ETC.

Advertisements in this column
one cent a word. Initials count
as words. Cash with order. All
correspondence addressed "Care
HORTICULTURE" should be sent
to 147 Summer St., Boston.

HELP WANTED

WANTED a young man of neat appear-
ance for general greenhouse work and help
at designing. State wages and full particu-
lars. References required. Address P. M.
OLM, Bath, Maine.

WANTED young man, good greenhouse
assistant with general knowledge of pot
plants of every description. State refer-
ences and wages expected to start with.
Progressive place for ambitious young man.
Address POT PLANTS, care HORTICUL-
TURE, Boston.

SITUATIONS WANTED

Gardener with first-class references, 30
years old, married, no children. Experi-
ence in and outdoors on well-known private
places. Address "R. S.," care HORTICUL-
TURE, Boston.

SITUATION WANTED by single man,
17 years' experience on private estates.
No trifles answered. "G. D.," care HOR-
TICULTURE, Boston.

THE NUT-GROWER

The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

New Offers In This Issue

AZALEA INDICA.

F. D. Kaulback & Son, Malden, Mass.
For page see List of Advertisers.

CHRYSANTHEMUM NOVELTIES FOR 1917.

Charles H. Totty, Madison, N. J.
For page see List of Advertisers.

ENGLISH IVIES.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Howard & Smith, 853 So. Olive St.,
Los Angeles, Calif.
For page see List of Advertisers.

HOLLAND GROWN ROSES, PLANTS AND SHRUBS.

A. Koloos & Co., Gouda, Holland; also
L. Vanheerde, care Maltus & Ware,
14 Stone St., New York City.
For page see List of Advertisers.

LILY BULBS.

Roman J. Irwin, New York City.
For page see List of Advertisers.

POT GROWN LILACS, DUETZIAS, WEIGELAS, ALMONDS AND GLY- CINE FOR FORCING.

A. Koloos & Co., Gouda, Holland; also
L. Vanheerde, care Maltus & Ware,
14 Stone St., New York City.
For page see List of Advertisers.

SPECIAL OFFER OF ORCHIDS.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Flower Market Reports

(Continued from page 713)

much demand except as a novelty. Car-
nations are daily improving and some
fine stock is seen in the wholesale
houses. Roses are coming in fine with
a slight advance in value. Violets and
sweet peas are improving. Christmas
novelties will come to the front after
Thanksgiving. Special low-price sales
of chrysanthemums and carnations
were held at two or three department
stores on Saturday, Nov. 18.

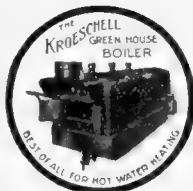
The first killing

WASHINGTON frost of the year
hit Washington

last week, eliminating large quantities
of outside bunch chrysanthemums
which have been greatly hurting the
sale of indoor stock. The big blooms
sold up quickly and retailers found it
difficult on Saturday to have their
orders filled. Lily of the valley is
quite poor and represents a loss to the
grower. It is now hard to get good
orchids. Roses of all varieties and
colors and carnations as well were in
good demand and as the supply had
been largely curtailed by a change in
the weather the wholesale houses
quickly cleaned them up. Narcissus
has made its appearance but moves
slowly. Sweet peas are not very
plentiful and sell well. Lilies are hang-
ing fire.

Est. 1765

Inc. 1904

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago**DURING RECESS.****Boston Florists' Bowling League.**

Scores recorded November 16:

Robinson	422	414	430	1266
Flower Market	423	404	423	1254
Waban	467	440	475	1382
New England	426	441	410	1277
M. & M.	471	510	468	1449
Carbone	419	407	423	1249
Penn	396	423	379	1198
Flower Ex.	424	419	470	1313
Galvin	430	439	434	1315
Snyder	404	430	390	1223

The list of games won and lost thus far stands as follows:

M'Alpine & M.D.	18	2
Flower Exchange	16	4
Galvin	16	4
Waban	15	5
Carbone	8	12
Robinson	8	12
Flower Market	7	13
New England	5	15
Penn	4	16
Snyder	3	17

Av. Guerin, 96; Dowd, 95; Montgomery, 93; Connelly, 92; Dike, 91.

Washington Bowlers.

The bowling team of the Florists' Club of Washington, D. C., last week took but one out of the three strings in its games with the Pirates, in the Mount Pleasant League.

MT. PLEASANT LEAGUE.
Florists.

Schoeps	107	95	78
Cahill	86	103	76
Redmond	90	82	86
A. Shaffer	90	116	89
Gouldman	94	92	81

Totals 107 488 410

Pirates.

G. Rawlings	104	97	115
Herring	98	85	113
Cash	89	88	98
Wetzel	89	88	98
McCamble	98	95	92
Bryan	98	98	103

Totals 178 463 521

Chicago Bowlers

The Florists' Team in the North Shore Bowling League, bowls each Tuesday or Thursday at the Lincoln Alleys, Belmont and Lincoln Aves.

The following scores were made last week:

	1st game	2nd	3rd
J. Huebner	153	123	210
F. Prier	147	175	153
A. Zech	90	158	134
J. Einweck	141	159	183
P. Olsem	176	176	182

DREER'S "Riverton Special" Plant Tub

No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.60	\$17.50	\$145.00
20	18 in.	1.45	15.50	130.00
30	16 in.	1.10	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.**GREENHOUSES BUILDING OR CON-
TEMPLATED.**

Barbaroo, Wis.—E. T. Ross, house 24 x 75.

Greenwood, Ind.—Mrs. Fred Rose, one house.

South Burlington, Vt.—W. E. Peters, one house.

Virginia, Ill.—Mrs. George Angier, house 25 x 60.

St. Matthews, Ky.—Nanz & Neuner Co., rose house.

Chicago, Ill.—Wm. Timme, Irving Park, house 20 x 150.

Van Cortlandville, N. Y.—Chas. E. Robinson, 2 houses, completed.

Lee, Mass.—Wilhelm Weber, Housatonic street, Riverview, one house.

Farmingdale, N. Y.—New York State School of Agriculture, house 25 x 100.

Catskill, N. Y.—Geo. H. Person, Jefferson Heights, house 11 x 80, completed.

PATENTS GRANTED.

1,204,905. Artificial Flower Stem. Dominick Rossi, New York, N. Y.

1,205,028. Knockdown Plant-Tub. Jean Henry Rudolph, Essex Falls, N. J.

Prof. David Lumsden, of the New York State College of Agriculture at Cornell University, is on a three months' leave of absence and is devoting the time to making a study of the retail florist trade at the store of W. J. Palmer & Son, Buffalo, N. Y. He is also doing research work at the South Park Botanical Gardens on orchids and tropical plants.

**NON-KINK WOVEN HOSE**

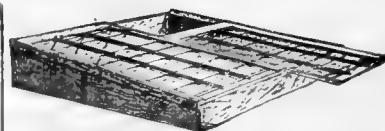
In any length (one piece) with couplings, 11c. per foot. Unequalled at the price. Remnants, shorter than 50 feet, 10c. per foot, with couplings.

HOSE VALVE—70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

**METROPOLITAN MATERIAL CO.**

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

**HOTBED SASH at 80c. each**

Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.
Double Light Sash up to \$4.00.We carry a large stock of all sizes.
Write us for estimate**S. JACOBS & SONS**

1359-1365 Flushing Avenue BROOKLYN, N. Y.

When writing to advertisers kindly
mention **HORTICULTURE**.**STANDARD FLOWER
POTS**

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST

29th & M Sts., Washington, D. C.

FOLEY MATERIALS

ARE THE BEST FOR

**Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES**

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, - - - CHICAGO, ILL.

CYPRESS GREENHOUSE STOCK

PECKY CYPRESS BENCH STOCK

HOT BED SASH

Ask for Circular D and Prices

THE A. T. STEARNS LUMBER COMPANY

NEPONSET, BOSTON

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.



VENTILATING APPARATUS

Let us tell you about our Equipment before you buy. No delay in getting material from us and **SATISFACTION GUARANTEED** — Just ask for our catalog — It is free from

ADVANCE CO.
Richmond, Ind.

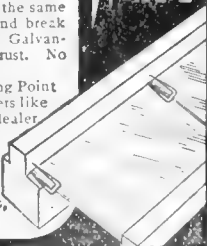
Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.
Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

**FULL
SIZE
No. 2**



The Florists Hall Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address
JOHN G. ESLEB, Sec., Saddle River, N. J.

MASTICA



For Greenhouse
Glazing

USE IT NOW

F. O. PIERCE CO.

12W. BROADWAY

NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



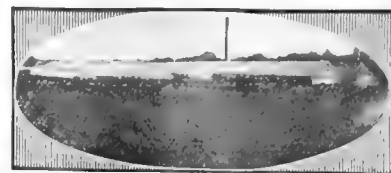
Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

Seal-tight liquid putty at \$1.25 per gallon.
METROPOLITAN MATERIAL CO.
1392-1414 Metropolitan Ave., Brooklyn, N. Y.

King GREENHOUSES



The above illustration shows the plant of the Springfield Floral Co., of Springfield, N. J. — one of our customers to whom we refer for any information you may desire about Metropolitan Greenhouses.

What we have done for others, we can do for you.

PUT YOUR GREENHOUSE PROBLEMS UP TO US

We go anywhere in the U. S.
to submit plans and prices.

METROPOLITAN MATERIAL CO.

Patented Greenhouses.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

GLASS

**GREENHOUSE MATERIAL
HOT-BED SASHES**

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

PATENTS

**Trademarks
and Copyrights**

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

PATENT LAWYERS

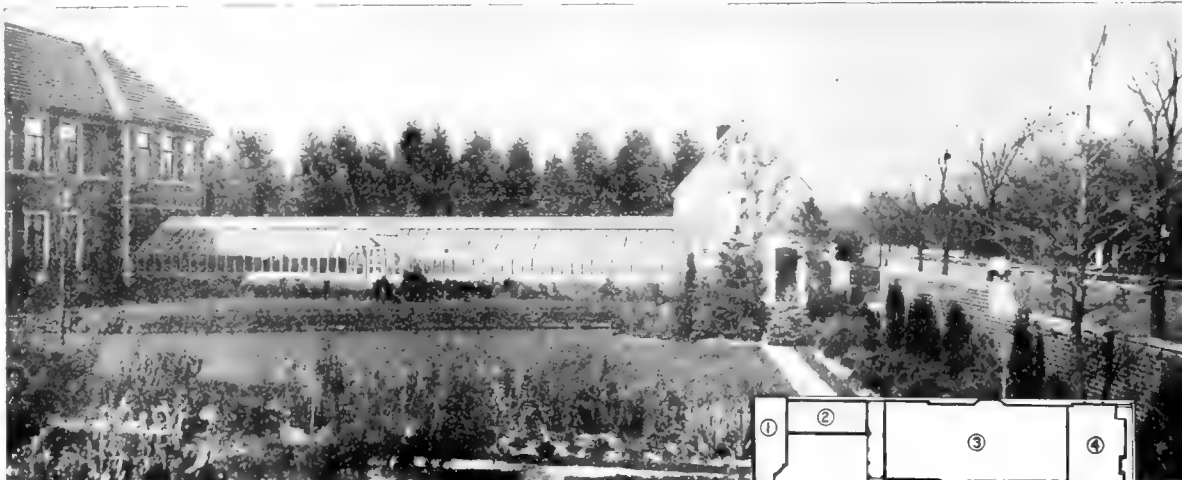
Box 9, National Union Building
Washington, D. C.



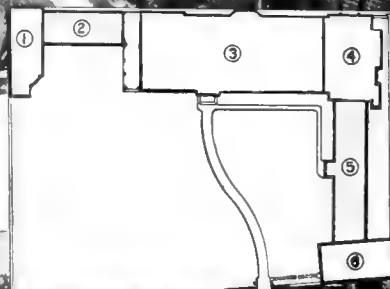
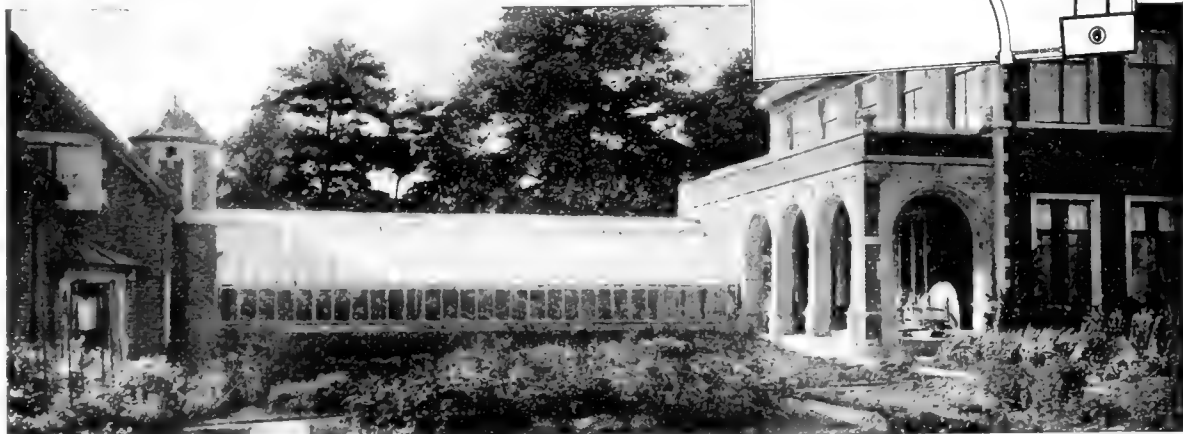
Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out

JOHN A. EVANS CO.
Richmond, Ind.



When next you are in Milwaukee, take a taxi drive up the beautiful Lake Boulevard; and when you come to this layout (you can't miss it) pull the bell of the gardener's cottage, and we are sure Mr. W. McKinnoe (the gardener) will gladly show you the grounds and glass gardens.



Making The Best of a City Block

An Accomplishment That May Hold a Hint for You

HERE, indeed is a compact, attractive, practical layout. All three of those things it most certainly is.

In brief, two sides of the garden and lawn are bounded by a fine English design brick wall. The other two sides by the gardener's cottage; a glass show house; the residence; the garage; a greenhouse; and the so-called "garden house," which is really a work room with a sleeping room above.

You can well imagine the street side effect of the greenhouse, like a big show case filled with flowers.

Making the greenhouse serve as a boundary to a property, is nothing new, but it is a thing well worth keeping in mind.

You have guessed right, both the show and greenhouse of this Milwaukee subject, are our construction of Everlasting Lastingness.

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

SALES OFFICES:

NEW YORK
42nd Street Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Widener Bldg.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

CLEVELAND
Sweetland Bldg.

TORONTO, Royal Bank Bldg.

MONTREAL, Transportation Bldg.

FACTORIES: Irvington, N. Y.

Des Plaines, Ill.

St. Catharines, Canada.

Vol. XXIV
No. 23
DEC. 2
1916

HORTICULTURE



Cattleya Trianæ

Eight Flowers on One Spike; Repeated Three Years in Succession
Julius Roehrs Company

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription \$1.00

1917

CHRYSANTHEMUM NOVELTIES

1917

Our Novelties for 1917 are the best we have ever had. The finest of the year in the large flowering type will be —

LOUISA POCKETT

Mr. Pockett, who raised both varieties says that Louisa Pockett will easily displace Wm. Turner as the best white in cultivation. From our knowledge of it I can endorse this statement.

In 1906 I distributed Beatrice May which remained our standard white for years. Five years later in 1911 I distributed Wm. Turner and now after a lapse of five years, in 1917 I will distribute this sensational white that surpasses all others—**LOUISA POCKETT**.

This is a seedling from Turner but a larger flower and heavier grower.

Other splendid Novelties for 1917 will be:

NAG-IR-ROC; W. H. WAITE; PRES. JOHN EVERITT; OCTOBER KING and BOL D'OR. January delivery, 2½ in. pots, \$16.00 Dozen; \$100.00 per 100.

We will also distribute Schaffer's
PHENOMENAL JAPANESE ANEMONES

And our new **SINGLES** for 1917, are as usual
THE FINEST IN THE WORLD

1917

CHARLES H. TOTTY

MADISON, N. J.

1917

CARNATIONS

Field Grown

ENCHANTRESS SUPREME, EUREKA
WHITE WONDER, PINK DELIGHT.
\$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL,
MATCHLESS.

\$7.00 per 100; \$55.00 per 1000.

LADY NORTHLIFF, PINK WINSOR,
WHITE WINSOR.

\$6.00 per 100; \$50.00 per 1000.

WOOD BROS., FISHKILL,
N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ELMER D. SMITH & CO.
CHRYSANTHEMUMS

Ask for Catalogue
ADRIAN, - - - MICH.

ROBERT DYSART
CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED.
40 STATE ST. - - - BOSTON
Telephone Main 58.

JULIUS ROEHRS CO.

HEADQUARTERS FOR

Choice Flowering and Foliage
Plant Stock

FOR IMMEDIATE DELIVERY

We have twelve houses filled with the lovely Mrs. Peterson Begonia, the gem of all Begonias. All sizes from \$6.00 per dozen up to \$4.00 each.

Send for Catalog of Christmas Stock

RUTHERFORD, - - NEW JERSEY

ROBERT CRAIG CO.
ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

HYDRANGEA
OTAKSA & AVALANCHE

Field grown plants, ready for 6-inch pots;
\$14.00 per 100.

ANGLIN & WALSH CO.
W liamsbridge, N. Y.

CHRYSANTHEMUM
ALEX. GUTTMAN

The best Early Lavender-Pink in the Market. Blooms have been selling for \$6.00 per dozen since middle of September. Stock Plants, 75c. each, \$7.50 per doz.

GUTTMAN & RAYNOR, INC.
Wholesale Florists

101 West 28th St., New York, or **FRANK DINDA**, Farmingdale, N. Y.

A. N. Pierson, Inc.
CROMWELL, CONN.

Bedding Plants and Roses

GERANIUMS

We have the largest stock, in better condition than we have ever had, and are in a position to take care of your orders in fine shape. Alph. Ricard, Beante Poitevine, Jean Vlaud, Edmond Blanc and Scarlet Bicolor, 2 in. at \$2.00 per 100, \$20.00 per 1000; 3-in. at \$3.00 per 100, \$30.00 per 1000. S. A. Nutt G. Grant, Mad. Buchner, Mad. Krammer, Jean Oherlee, Abbie Schaffer and E. G. Trego, etc., 2 in. at \$2.00 per 100, \$18.50 per 1000; 3-in. at \$3.00 per 100, \$25.00 per 1000.

COLEUS, 10 varieties, including Golden Bicolor and Verschaffeltii, Heliotrope Chieftain and Ageratum blue and white. Rooted Cuttings, 75 cents per 100 (post paid); \$5.00 per 1000 express not prepayable.

BOSTON FERNS, 7-in., \$6.00 per doz.; 8-in., \$1.00 each, \$9.00 per doz. Large plants in 11 and 12-in. pots, from \$2.00 to \$5.00 each.

	2-in. 100	2-in. 1000	3-in. 100	3-in. 1000		2-in. 100	2-in. 1000	3-in. 100	3-in. 1000
ACALYPHA	\$2.50	\$20.00	\$3.50	\$30.00	LEMON VERBENAS	\$2.00	\$18.50	\$3.00	\$25.00
ALTERNANTHERAS	2.00	18.50	3.00	25.00	LANTANAS, 10 varieties	2.00	18.50	3.00	25.00
AGERATUM	2.00	18.50	3.00	25.00	MOONVINES, White and Blue	2.00	18.50	3.00	25.00
ASPARAGUS SPRENGERI			5.00		PARLOR IVY, S. Scandens	2.00	18.50	3.00	25.00
BEGONIAS, Vernon	2.00	18.50	3.00	25.00	PETUNIAS, Double and Single				
COLEUS	2.00	18.50	3.00	25.00	Mixed	2.00	18.50	3.00	25.00
CUPHEA	2.00	18.50	3.00	25.00	POMPON CHRYSANTHEMUMS				
HARDY ENGLISH IVY	2.00	18.50	3.00	25.00	SALVIA, Bonfire and Zurich	2.00	18.50	3.00	25.00
HELIOTROPE	2.00	18.50	3.00	25.00	SWAINSONA, White	2.00	18.50	3.00	25.00

CASH WITH ORDERS.

R. VINCENT, Jr., & SONS CO.,

WHITE MARSH,
MD.

Hardy Roses

New York State, two-year field-grown. Can furnish so long as unsold. **THIS FALL or NEXT SPRING** Delivery, in own-rooted stock: **GRUSS AN TEPLITZ** hybrid tea, **HERMOSA** and **CLIMBING WHITE DOROTHY**, all at \$12.50 the 100; **EXCELSA**, the improved Crimson Rambler, at \$10 the 100 f.o.b. New York.

JAPAN BAMBOO CANES, green dyed, 3 ft. length, per bale of 2500, \$12.50; natural, 6 ft. length, per bale of 1000, \$7.50.

AUGUST RÖLKER & SONS, 51 BARCLAY STREET, New York
or P. O. BOX 752

LILY BULBS

RALPH M. WARD & CO.
71 MURRAY ST., NEW YORK

When writing to advertisers kindly
mention **HORTICULTURE**.

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

CHAS. SCHWAKE & CO., Inc.

Valley

GERMAN, SWEDISH
AND DUTCH PIPS

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....751	Cowee, W. J.....742	Gunther Bros.....745	Kuebler, W. H.....714	Pierce Co., F. O.....751	Smith, P. J.....714
Albany Cut	Craig, Robt. Co.....722	Guttman & Ray- nor.....722-714	Lager & Hurrell.....721	Pierston, A. N.....722	Smith & Fetters.....739
Flower Ex.....744	Crawbuck, Geo.....745	Hail Association.....750	Lange, H. F. A.....739	Pierston, F. R.....731	Smith, W. & T.....
Allen, J. K.....745	W. Co.....745	Hammond Paint & Slug Shot Works.....735	Lemon Oil Co.....735	Pittsburgh Cut Flower Co.....745	Nursery Co.....724
Allen, Wm. Stu- art.....745	Dards.....738	Hart, Geo. B.....744	Leonard Seed Co.....737	Reed & Keller.....742	Smyth, Wm. J.....739
American Bulb Co.....737	Davenport, A. M.....724	Henderson, A. & Co.....737	McHutchison & Co.....724	Riedel & Meyer.....744	Stumpp, G. E. M.....738
Anderson, S. A.....739	Delgado Q. Fran- cisco.....724	Hentz & Nash.....744	McManus, Jas.....744	Reld, Edw.....742	Thorburn, J. M. & Co.....737
Anglin & Walsh.....722	Dinda, Frank.....722	Hess & Swoboda.....739	McConnell, Alex.....738	Reuters.....739	Totty, Chas. H.....722
Aphine Mfg. Co.....735	Dorner, F. & Sons Co.....722	Hews, A. H. & Co.....750	Marshall, W. E. Co.....737	Robinson, H. M. & Co.....745	Traendly & Schenck.....744
Badgley & Bishop, Inc.....741	Dreer, H. A.....735	Hill, E. G. Co.....712	Meccori, Paul.....715	Robinson, H. M. Co.....741	United Cut Flower Co.....745
Barrows & Son.....733	Dysart, Robert.....722	Hill, D. Nursery Co.....724	Metropolitan Ma- terial Co.....751	Rochrs, J. Co.....722	Valentine, J. A.....738
Bayersdorfer, H. Co.....741	Edgar, W. W. Co.....732	Hitchings & Co.....752	Michell, H. F. Co.....736	Roland, Thomas.....739	Vanheerde, L.....724
Bay State Nur- series.....724	Edwards Folding Box Co.....742	Holland Nurser- ies.....724	Michigan Cut Flower Ex.....712	Rolker, A. & Sons.....723	Vincent, R., Jr., & Sons Co.....723
Beechwood Hgts. Nurseries.....745	Elliott Auction Co.....724	Holm & Olson.....739	Millang, Chas.....714	Rosery, The.....738	Wants, For Sale.....749
Bohnbink & At- kins.....724	Ernest, W. H.....750	Howard & Smith.....738	Mt. Desert Nur- series.....731	Schelling, Max.....738	Ward, R. M. & Co.....723
Boddington, A. T.....736	Esher, J. G.....750	Irwin, R. J.....737	Murray, Samuel.....738	Schwaer, Chas.....723	Weber, F. C.....739
Bolgiano & Son.....737	Evans, J. A. Co.....751	Jacobs, S. & Sons.....750-751	Nason, L. B.....745	Sharp, Partridge & Co.....751	Weiss, Herman.....745
Breck, J. & Sons.....737	Farquhar, R. & J. & Co.....737	Johnson & Mil- lang.....731	National Nur- seryman.....721	Sheridan, W. F.....744	Welch's.....742
Breitmeyer's, J. Sons.....738	Foley Mfg. Co.....751	Kasting, W. F. Co.....742	N. E. Florist Sup- ply Co.....743	Siebrecht, Geo. C.....744	Welch Bros. Co.....742
Budlong, J. A.....742	Ford, W. P.....744	Keller, J. B. Sons.....738	Nicotine Mfg. Co.....735	Siebrecht, W. R.....744	Welch, Patk.....745
Bunyard, A. T.....738	Ford, M. C.....744	Kerway & Son.....737	Nissen, Leo Co.....742	Siggers & Sig- gers.....751	Wood Bros.....722
Burnett Bros.....737	Frement, H. E.....744	Kerr, the Florist.....739	Nut Grower.....749	Skidelsky, S. S. & Co.....737	Woodrow & Mar- ketos.....742
Burpee, W. A. & Co.....737	Galvin, Thos. F.....739	Kervan Co.....741	Ouwkerk, P. J.....721	Slinn, B. S., Jr.....745	Woodruff, S. D.....
Carter's Tested Seeds, Inc.....736	Graham, Adam & Sons.....739	King Construc- tion Co.....751	Palmer, W. J. & Sons.....729	Slinn, Clarence.....745	Young, John & Co.....741
Childs, John Lewiss.....733	Grey, Thos. J. Co.....737	Knoble Bros.....739	Park Floral Co.....738	Smith, Elmer D. & Co.....722	Young, Thom.....
Clarke's, D., Sons.....738	Gasser Co., J. M.....739	Koloas, A. & Co.....724	Parshelsky Bros.....751		Jr.....745
Coan, J. J.....745	Gude Bros. Co.....738	Kramer, F. H.....739	Pennock-Meehan Co.....743		Young & Nugent.....738
Cooke, Geo. H.....738		Kroeschell Bros.....750	Penn the Florist.....738		Zech & M.....745
					Zvolanek, Ant. C.....737

FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 746, 747, 748, 749

A. KOLOOS & CO.

WRITE TODAY

WRITE TODAY

Now is the Time to Order Your Plants and Shrubs to Secure Early Spring Delivery

Such as Azalea, Aucuba, Boxwood, Blue Spruce, Conifers, Clematis, Hydrangea, Lilacs, Laurels, Japanese Maples, Roses, Rhododendrons. American Hardy varieties one of our specialties, and all other Hardy shrubs for forcing or outdoor.

ROSES, Bush, Tree and Climbers in more than 300 sorts, including the leading and new up to date varieties are offered by us.

LET US QUOTE YOU ON YOUR LIST OF WANTS.

Copy Wholesale Catalogue 1917-18 Free on Application from

MR. L. VANHEERDE, c/o Maltus & Ware, 14 Stone St., New York

WRITE TODAY

WRITE TODAY

EXPORT NURSERIES

GOUDA

HOLLAND

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
HATBORO, PA.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St. Woburn Heights
P. O. No. 1, Hoboken N. J.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY. Small, medium and large sizes supplied. Price list now ready.

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers in America.

BOX 415, DUNDEE, ILL.

BOBBINK & ATKINS

Nurserymen, Florists and Planters

RUTHERFORD, NEW JERSEY

KENTIA SEEDS

NEW CROP—JUST ARRIVED

KENTIA BELMOREANA

KENTIA FORSTERIANA

COCOS WEDDELIANA

Write for Import Prices, stating quantity required

McHUTCHISON & CO., THE IMPORT HOUSE, 95 Chambers St., New York

ENGLISH IVIES

3 in., \$8.00 per 100; 3½ in., \$10.00 per 100; 4 in., \$12.00 per 100

SMALL FERNS FOR DISHES

Plenty of Holly and Aspidium 2¼ in., \$4.00 per 100; \$35.00 per 1000. Adiantum rhodophyllum and cuneatum, 3½ in., very strong plants, \$8.00 per 100.

A. M. DAVENPORT, Watertown, Mass.

TREES

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties.

Sturdy, choice stock that can be depended upon. Send for catalog and special trade prices.

The Bay State Nurseries

North Abington
Mass.

SHRUBS

This New England "and climate produces fine sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate

OLDEST AUCTION HOUSE IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co.

42 Vesey St.,

New York

ORCHIDS

Francisco Delgado Q.

Orchid Collector

Solicits orders for shipments of Orchids, Prices quoted upon application.

BOGOTA (Chapinero) COLOMBIA

ORCHIDS

We grow and sell nothing but ORCHIDS. If you are in the market for this class of plants we respectfully solicit your inquiries and orders. Special lists on application.

LAGER & HURRELL, Summit, J. N.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—*1st pt.*

Holiday Suggestions

It will be time well spent to give each plant a perfect cleaning which will show to full advantage all the markings and shades which go to make foliage plants beautiful. A week or ten days before Christmas see that foliage and pots get a good cleaning as the least bit of dirt detracts from their beauty. The average florist can not grow all his own plants and now is the time to buy. Take a look through the advertising columns of HORTICULTURE for offers of anything you may want. Look over your stock of supplies now to see if anything is wanting such as heavy wrapping material, tissue, waxed and waterproof crepe paper, in white, red, and green, sheet moss, ribbons, chiffon, cut flower boxes, fern dishes, etc. Shop early.

Lilies for Christmas

To properly harden off the lilies it is best to treat them gradually until you have them in a temperature of about 50 degrees, night. See that they are kept clean of fly, as there is nothing more unsightly than lilies with green fly on them. When the flowers are well expanded they should be given a lower temperature, but remember they will not relish cold draughts which will cause them to wilt. Lilies intended for Christmas should be so far advanced that the buds begin to turn white twelve to fourteen days beforehand. They can stand from 60 degrees to 70 at night with a raise of from 15 to 20 degrees during sunny days. As the flowers open see that the pollen is promptly removed.

Lilium speciosum

These can be grown in pots, using four bulbs to a 7-inch pot, five bulbs to an 8-inch pot, and six to a 9-inch pot. The soil should be a good fibry loam enriched with very well rotted manure, using about a fourth to the bulk of soil. Crock the pots well and pot moderately firm. Before potting see that the soil is uniformly moist as these lilies want very little water until they have filled the pots with roots. It is a good plan to grow quite a few of these lilies, as they can be bloomed at a season when other flowers are scarce. Place under a bench where there is no drip, and where the temperature can be evenly maintained at about 40 degrees, with all the ventilation possible. The worst enemies of the lily when grown indoors are the aphids. Fumigate frequently—at least once a week. When they have started a couple of inches of growth they should be brought up to the light.

Lorraine Begonias

Any pairs or singles that are to be filled can be done now before the hurly-burly of the Christmas trade is with us. The atmosphere should now be kept rather dry for Lorraine begonias. These begonias are very sensitive to any sudden changes of temperature. Never let them dry out, for if this happens their beauty will be of brief duration. Most sensitive to sudden changes of temperature are begonias of all kinds, those of the Gloire de Lorraine type in particular. They should be as near 60 degrees as possible. Give them air when possible but cold currents should not blow over the plants. Avoid dryness at the roots or any excess in the way of watering. Where large specimen plants are grown—say in 6 to 8-inch pots—they should have plenty of room. Raise them up close to the glass on inverted pots and far enough apart to have every one fully exposed to light.

Rhododendrons for Forcing

Now is a good time to get a batch of the newly imported plants and pot them up. These plants when forced come in very serviceable for spring trade. It is always better to dip the balls of roots in a tub of water so they will have a chance to get well wet through for there is nothing worse than to pot them with a dry ball. They grow and flower well in a compost of two parts fibrous loam to one of leaf mold with some sand intermixed. Give good drainage and pack the compost firmly around the old ball. See that they are always kept moist at the roots. These plants want to be kept cool until January so give them a cool pit or house that is just clear of frost, but where you have not these conveniences a deep frame will answer very well. After the new year they can be given a temperature of 50 degrees at night. They like a good light house to grow in during the winter, but when they are in flower some shade will be found the best to hold them in good shape.

Reminders

English ivies can be stored under the edges of the benches in any cool house.

Anthericums can be freely propagated now from the young plantlets that appear on the flower spikes.

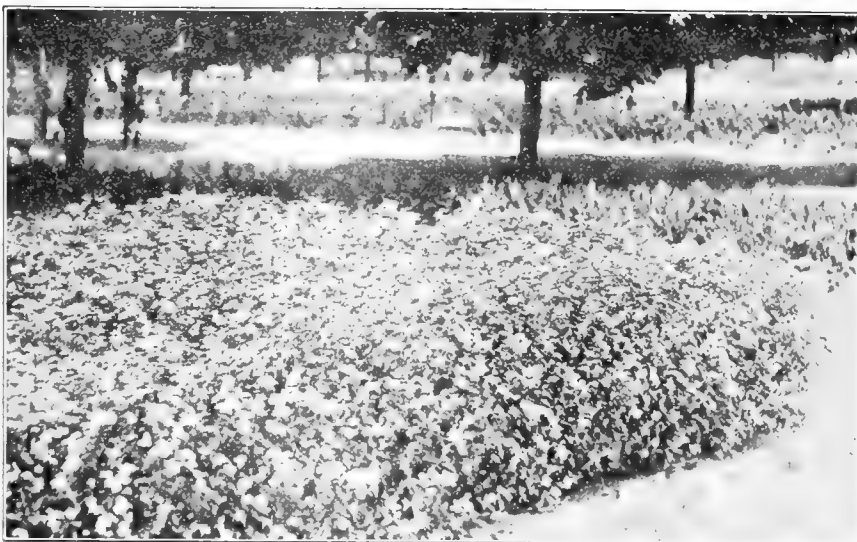
Keep pelargoniums well on the dry side until after the turn of the year, when any that need it may be repotted.

Cow manure that has been dried and made fine is the best of all manures for top dressing all bench crops, so always have a good pile of it inside ready for use.

Eupatorium

Nearing the last stages of the growing season the number of hardy perennials suitable for massive color display in the garden is limited. Of course we chiefly rely on chrysanthemums for late displays. Anemone japonica continues to produce flowers more or less freely up to frost. Likewise are *Aster grandiflorus*, *Caryopteris mastacanthus* and the arctic daisy, *Chrysanthemum arcticum*, still available. But for a real solid floral effect there are none of the afore-mentioned that eclipse the eupatoriums, particularly the well known variety *Eupatorium coelestinum*. In general appearance closely resembling the annual ageratums, its habit of growth is erect and slender, reaching a height of from 1½ to 2 feet. The flowers in a cut state possess good lasting qualities and may be used for filling vases. The main reason, however, for granting *Eupatorium coelestinum* permanent space on our borders is the great abundance of blossoms at a time when we need them for garden effect. As a flower producer the white species, *Eupatorium ageratoides*, is equally valuable. Slightly taller, its dense cymes will be found a desirable material in the makeup of various design work of the more inexpensive class.

Eupatorium purpureum maculatum with its deep purple flowers is well adapted for the wild flower garden



EUPATORIUM COELESTINUM.

or for naturalizing in moist situations of the park. Being natives of our country all the eupatoriums mentioned in this note require a minimum of care in the garden. A rather light soil, sufficient irrigation and a sunny exposure are essentials for the development depicted by our illustration. The common method of propagation is by division. Plantations, as a rule, endure the middle Atlantic winters without protection.

Glenside, Pa.

Richard Rothe

Violet Leaf-Spots

The question of violet diseases is one which is of importance to florists at this time of the year. Most of us have got the violets into the houses and many are picking flowers. But it is just now that the success or failure of our violet crop is liable to have its inception.

Violets, above all plants, are the fussiest in regard to themselves. They *must* be kept clean. That is, to my mind, the secret of continued success with violets. Leaves and other trash from the plants left lying around on the soil are veritable hot-beds of disease infection. Those leaves would never have left the plants if there had not been something the matter with them. Mr. Florist, would you put your child to bed with a scarlet fever patient? That's just what you do when you leave dead foliage and trash around your violet plants. Practice the cleanest culture, and see the difference.

This article does not make any attempt to treat exhaustively of violet diseases. Three of the most important leaf-spots only will be taken up. These three are *Alternaria* Spot, *Phyllosticta* Spot, and *Cercospora* Spot. *Alternaria* Spot can readily be distinguished from the others. Characteristically the spot is formed in concentric rings, i. e. the spot seems to be made up of several rings one inside the other. This is considered to be the worst of the leaf-spots of the violet. Many growers have from time to time been forced out of the business by this disease and at best you must expect a continual hard fight with it. This spot is caused by a member of the Fungi Imperfecti—*Alternaria violae*. At first the disease appears as small, greenish-white, round spots. Later, as the spot enlarges, the centers dry up and may fall out. At any rate, the center becomes a pale brownish color and is surrounded by a distinct amber-colored margin. Beyond this is an area of tissue of lighter green

color merging into the green of the leaf. Any portion of the plant, except the roots, may be attacked, but it is most commonly found on the leaves.

The *Phyllosticta* Spot may be identified by the cluster of very minute black or brownish specks in the center of the spot. The spot is whitish averaging one-eighth inch in diameter and the spots often run together and may involve the whole leaf. The causal organism is also a member of the Fungi Imperfecti known as *Phyllosticta violae*.

The *Cercospora* Spot usually produces a clear whitish or grayish spot with a darker center. The fungus causing this spot is a member of the Fungi Imperfecti, too, and is known as *Cercospora violae*.

Often it is almost impossible to tell the spots apart especially when two or even the three causal organisms are found in the same spot, as often happens. However, the characteristics given will serve to identify the disease to some extent and only a microscopical examination can make sure of the identity of each.

Whatever spot the plants may be affected with there is the same treatment. It is useless to try spraying. "An ounce of prevention is worth a pound of cure." Practice clean culture ALWAYS. Water early in the day and only on sunny days. Select strong, healthy vigorous plants when planting. Propagate from clean stock. Renew the soil every season. Finally, keep insects down. They are often a bigger factor in the spread of disease than one would imagine. Remember, if you don't let disease gain an entrance, you cannot have an infection. This means that you must pick and destroy all yellow and diseased leaves, plants or plant parts as soon as they appear.

Amherst, Mass

B. E. Wildon,

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Watch For Crown Gall

This disease has never bothered us in the rose houses until recently when it was brought in on some plants that were purchased, and judging from reports it is appearing every here and there all over the country. It resembles black knot on plums and peaches and wild cherry and as far as we know it is the same thing. The only cure is to cut it off the plants and burn it as soon as it is seen. Often it will grow at the base of the plant on the roots, in which case it can be located by looking for it on all plants that do not thrive well compared with their neighbors. If other plants are on hand big enough to replant the best way would be to pull out the plant with as much soil as possible and burn it, setting the new plant in its place. Where no plants are on hand and it is discovered on time, the growth can be cut off with a sharp knife and burned. If it is cut off close to the plant, and the wood where the growth was found scraped clean with a sharp knife, it is not likely to appear again on the same plant. We have not known this disease to be plentiful enough to cause any noticeable loss, but as it may appear here and there it is best to get right after it and keep it out. It is caused by bacteria which no doubt comes from the soil. It would be well to bear this fact in mind when getting soil for the sod heaps this fall and not take any soil from under or near wild cherry trees, or fruit trees affected with this disease. Also if there are any trees on the place so affected it will be best to remove the diseased limbs and burn them at once, and should the whole tree be badly affected dig it out with the roots and burn it all in the boilers if possible, so there will be no chance of any unburned portion of the diseased wood getting into the soil.

Mulching Beauties

It will be necessary to mulch once more in the earlier planted houses of Beauties and this work will have to be done with the utmost care for it will be very easy to do more harm than good. To begin with, the manure should be well decayed and thoroughly mixed by being turned over frequently. It should not be hot and should be cow manure only. When applying the mulch it will be best to apply only enough to protect the roots, and nowhere near as heavy as the first mulching done in the late summer or early fall. Often all that is necessary is to apply a little manure along the front edge of the benches, where the mulch that was given before has been dissolved by frequent waterings. Make sure that the plants are not too dry when the mulch is applied, and water them as soon as it is on. This will take the heat out of the manure should there be any in it, and it will also wash down a great deal of ammonia which would otherwise escape into the air and perhaps burn some of the leaves. Unless the night following is very cold leave a crack of air on the house to make sure that no harm will come to the plants from the odor of the manure. As the darkest days of the winter are coming be careful not to mulch too heavily, giving merely

enough to protect the roots, and depend on liquid manure, sheep manure, bone meal, etc., to give the plants the food they need.

Cleaning Up

Plants will not only look much better if they are kept clean but they will do much better as well, if all the dead leaves are kept picked off, and the surface of the benches stirred enough to keep the top of the soil open and sweet. No scratching should be done as the roots by this time are near the surface, but the coarse lumps can be rubbed over as the leaves are picked. This should not disturb the roots in any way, and will prove a great benefit to the plants which need air as well as food and water. There are bound to be some dead leaves, especially in commercial houses where the roses are planted close together and made to carry plenty of growth. Some of the bottom leaves are bound to die this way as they get shaded so badly that they are of no use at all to the plant. On private places where quality of flowers and foliage as well as general appearance of the plants must always be the first consideration, they can be planted further apart, and then they will not lose so many leaves. If the plants lose foliage through natural causes such as mentioned, growers will have no occasion to worry. Tying too tight, or rather bunching the plants too much when tying to stakes, will kill a good many leaves unnecessarily, but this can be avoided.

Sulphur on the Pipes

As there is much more heat in the pipes now that the weather has been cold and the ventilators are open less and less every day, the amount of sulphur used on the pipes will have to be much less than was used earlier when air was always on and heat used only a few hours each night. Care should be taken not to apply sulphur to pipes carrying more than eight pounds of steam. If they have more than that, a little lime will have to be added to the sulphur to keep this from evaporating too rapidly, thus making the fumes too strong and bleaching the flowers if not burning some of the leaves. In the old style rose house, twenty feet wide, one pipe around the house painted every ten feet or so will be all the sulphur needed as a fumigation to prevent mildew or to check a slight attack. If mildew has spread badly a little more will be needed, but this is an exception as it should never be allowed to spread at all. As soon as a speck or two appears here and there, see that the cause is found and removed and the disease kept from spreading by killing it at once. A little sulphur on the pipes at night, followed by a syringing the next day, will do the work very nicely. Or the plants can be sprayed regularly with Fungine. Dusting with sulphur should not be resorted to at this time of the year as the sun is not strong enough to affect it any, and it will likely do harm by bleaching the buds wherever it touches them. Never under any circumstances burn sulphur in the green-houses as the fumes will surely kill everything with which they come in contact.

HORTICULTURE

VOL. XXIV

DECEMBER 2, 1916

NO. 23

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.
147 Summer Street, Boston, Mass.

Telephone, Beach 292.

WM. J. STEWART, Editor and Manager

SUBSCRIPTION RATES:

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES:

 Per inch, 39 inches to page..... \$1.00
 Discounts on contracts for consecutive insertions, as follows:

One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.

Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Cattleya Trianae.	
NOTES ON CULTURE OF FLORISTS' STOCK—Holiday Suggestions—Lilies for Christmas—Lilium speciosum—Lorraine Begonias—Rhododendrons for Forcing—Reminders—John J. M. Farrell.....	725
EUPATORIUM—Richard Rothe—Illustrated	726
VIOLET LEAF-SPOTS—C. E. Wildon.....	726
ROSE GROWING UNDER GLASS—Watch for Crown Gall—Mulching Beauties—Cleaning Up—Sulphur on the Pipes—Arthur C. Ruzicka.....	727
INVESTIGATION OF ROSE DISEASES—Dr. L. M. Massey	729
STRAWBERRIES UNDER GLASS—Illustrated.....	729
CLUBS AND SOCIETIES—American Rose Society—Meetings Next Week—Society of American Florists—Chrysanthemum Society of America.....	730
THE EXHIBITIONS—Texas State Flower Show.....	731
OBITUARY—William L. Kroeschell, portrait—S. J. Reuter, portrait.....	732
Joseph H. Cushing—Bayard Thayer.....	735
GREENHOUSE FUMIGATION	734
SEED TRADE—One Week's Imports.....	736
OF INTEREST TO RETAIL FLORISTS:	
New Flower Stores.....	738
Flowers by Telegraph.....	739
NEWS ITEMS FROM EVERYWHERE:	
Chicago, Cincinnati, Boston, Washington, Newport, R. I., Pittsburgh, New York.....	740-741
DURING RECESS—Chicago Bowlers—Boston Florists' Bowling League	741
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago, Cincinnati, New York, Philadelphia	743
Pittsburgh, St. Louis, Washington.....	750
MISCELLANEOUS:	
Out of the Ginger Jar—Geo. C. Watson.....	736
Publications Received—New Corporations.....	736
News Notes	738
Visitors' Register	741
Three Distinguished Philadelphians—Illustrations...	735
Greenhouses Building or Contemplated.....	750

of each new variety and a very extensive and valuable trial of novelties is confidently expected from this ingathering. We hope that our American hybridizers will be well represented in this enterprise, so praiseworthy on the part of the French horticulturists at a time of awful struggle and privation. From what we hear about the new "creations" now receiving their finishing touches by certain American rosarians the candidates entered from this part of the world are not likely to suffer by comparison with those raised anywhere on the other side of the Atlantic. It is quite safe to say that there are some genuine surprises in store.

Disproportionate but just closed, it is already full premiums time for the planning of details and the compilation of prize schedules

for the next season, and the earlier it is undertaken the better. The custom of soliciting special prizes from the numerous florist, nursery and seed houses, as well as from private patrons of horticulture and from local business houses, appears to be rapidly growing—in fact, some of the prize schedules of the season just ended have consisted very largely of these special donations. One serious fault with such is the great disproportion in the amounts offered and their widely variant appropriateness relatively to the respective classes in which they are offered. We expect eventually to see the trade establishments, who are being drawn into this prize levy more and more each year, generally adopt the plan of series of medals, the honor of winning which, rather than their cash value, will be the incentive to competition, but in the case of other classes of donors, the amount of whose gifts is largely dependent upon generosity rather than upon their adequacy for the purpose specified, the schedule committees should urge and should be given all possible latitude in the division and application of the amounts subscribed, so that the absurd disparity so noticeable in many instances may be avoided in the future.

Mutations of the chrysanthemum The best thing that has happened to the chrysanthemum in recent years is the single chrysanthemum. Just at the

time when the regulation big double varieties were beginning to get "the cold shoulder" from the jaded public the singles and anemones and pompons stepped out from their humble position in the back ground and saved the day by their appeal to the people of dainty artistic temperament and thus an extension and renewal of popularity came to the queen of autumn in whatever character she appeared. In fact, the massive Japanese doubles are not outclassed by this turn in chrysanthemum affairs but rather is their stability restored. This revival of interest has proved a stimulus on new lines to the chrysanthemum raisers who are now encouraged to strive for new colors and habits and forms that will appeal to the artistic eye and lend themselves to graceful decorative effect either alone or in association with the big blooms. The experience of the exhibitions this year shows that the popular heart has been touched. The public voice has spoken in undoubted approval and the people stand ready to be shown how the chrysanthemum can and should be made use of to beautify and adorn the somber surroundings of autumn. Bear this fact in mind when making up the prize lists for next fall and you'll have no reason to complain of the public interest if you act accordingly.

A great trial of new roses We are informed that it is proposed by the Government of the City of Paris to establish in the Department of the Seine a "rose concourse" to continue for three years 1917-1919. They request that rose raisers everywhere send for test purposes five plants

INVESTIGATION OF ROSE DISEASES

By Dr. L. M. Massey, Specialist on Rose Disease Investigations, Department of Plant Pathology at Cornell University.

A special and extensive investigation of the diseases of roses has been undertaken by the department of Plant Pathology, Cornell University. This work, which was begun August 1, 1916, is being conducted in co-operation with the American Rose Society, whose members have contributed towards the financial support of the undertaking.

During the past three months much time has been spent in visiting rose plantings in northeastern United States, making a survey of diseases. The gardens and greenhouses of some thirty-five rose growers have been visited. The number and extent of the diseases present have been noted and specimens taken for further study. Growers have also materially aided the work by sending in specimens. These specimens have been examined and the growers advised as to the cause and control of the disease so far as our present knowledge and experience allows.

Unfortunately, nothing is known concerning the control of many diseases of the rose, and but little concerning even some of the most common diseases; and what little is known is mostly of an academic rather than of a practical nature and not accessible to the average grower. Every grower who has endeavored to obtain much information upon any rose disease has been brought face to face with this unfortunate situation. It is for the correction of this condition that members of the American Rose Society have enlisted the services of a plant pathologist to investigate rose diseases and place the information before the growers.

The preliminary survey has shown that the two most common diseases of the rose are the powdery mildew and the black spot, both on indoor and outdoor plants. These diseases have received the most attention of growers and plant pathologists in the past. It has been proved beyond doubt that they are caused by fungi, the life-histories of the casual organisms have been partially worked out, and various suggestions for control offered. Considerable work remains to be done to determine the conditions which favor the development of these diseases and the best methods of treatment. It is the plan of the writer to publish a short article in the trade papers in the near future upon each of these diseases in which the known facts concerning them will be placed before the growers.

STRAWBERRIES UNDER GLASS.



Strawberries at \$2 to \$2.50 a pint box in February and March should be a paying crop if well managed. Plants in fruit make, also, an acceptable feature in a dinner table decoration from the double standpoint of beauty and utility. The accompanying cut shows a system of strawberry forcing as successfully carried on by a grower in Waltham, Mass. As will be seen the boxes in which the plants are set are arranged on shelves, one above the other, on the rear wall of a lean-to greenhouse. The boxes are open on top but the plants issue from apertures

in the front of the boxes and hang towards the light so that the fruit is well exposed to the sun and is also kept from injury by contact with the soil. A wooden track runs the length of the house and the man watering or otherwise working on the plants stands on a car which a helper pushes along. Temperature is not allowed to drop below 65 degrees at night and hand fertilizing has to be carefully done to every pistil. Bees are not enough for this and without hand work every sunny day, misshapen fruit is sure to occur.

However, the survey has revealed the fact that other diseases besides mildew and black spot cause rose growers considerable losses. In fact, many greenhouse men claim that these two diseases cause them little worry.

Ophelia and American Beauty plants affected with a serious root or crown-rot have been received from growers and observed by the writer, in visits to rose houses. The plant decays just below the surface of the soil, usually where the plant "breaks," the developing branches being encircled by the rot. Soon the parts of the plant above ground become yellow and of a sickly appearance as if starved for moisture or food, and die a more or less lingering death. Some growers have kindly furnished samples of plants so affected, and several organisms which may possibly be causing the disease have been isolated from diseased tissue. Inoculations will be made to determine which organism is the cause. The life-history of the pathogene will be studied and an attempt made to work out some method of control. This is necessarily a slow process, but will, we trust, result in the discovery of an effective means of controlling the trouble.

Other diseases which have been noted are: (1) crown gall, caused by a bacterial pathogene, affecting the roots and occasionally the stems of both indoor and outdoor roses; (2) *Phyllosticta* leafspot, affecting outdoor

roses, chiefly ramblers; (3) other leaf spots and cane diseases of unknown causes. Work upon the cause of the diseases in this last group is now under way. Extensive experiments on the control of leaf-spot diseases of indoor and outdoor roses are being planned and will be tested out as quickly as possible. Reports of progress will be made from time to time.

Some misunderstanding seems to exist among growers in regard to sending specimens for examination. Where desirable a postal card will bring to the grower one or more franked tags which will carry specimens by mail postage free; or the grower may pay the postage if he so desires. The specimens will be examined and the sender furnished with all available information regarding the cause and control of the disease. Not only members of the American Rose Society, but rose growers in general may take advantage of this opportunity to obtain information relating to rose troubles. By sending specimens the grower will not only help himself but will be materially aiding the project. Specimens will always be appreciated, regardless of whether or not they are of a new or old disease, or of economic importance. It is especially desired at this time to obtain rose plants affected with root diseases.

Address all correspondence to L. M. Massey, Department of Plant Pathology, Cornell University, Ithaca, N. Y.

CLUBS AND SOCIETIES

AMERICAN ROSE SOCIETY.

The executive committee of the American Rose Society held a special session in Horticultural Hall, Philadelphia, Pa., on the afternoon of Nov. 22. There was an attendance of twenty-three persons representing the Philadelphia Florists' Club and the Pennsylvania Horticultural Society. A very full discussion took place relative to where the best place would be to fix upon for the Spring Exhibition of March 20, 21, 22 and 23, 1917. The discussion was finally brought to a head by a motion by Joseph Heacock, recommending the holding of the next annual meeting and exhibition of the American Rose Society in the First Regiment Armory, March 20, 21, 22 and 23, 1917, and was duly seconded. The motion was put by President Pennock and unanimously carried. It was voted that a committee be appointed to engage the Armory Hall, George Burton to be chairman, also that Adolph Farenwald be appointed exhibition manager. It was further decided that a local secretary be appointed, and Fred. Cowperthwaite was designated for that position. A committee on the exhibits of private gardeners and to solicit the same was appointed with William Kleinheinz, Ogontz, Pa., as chairman. Other committees were constituted as follows: On Commercial Exhibits, George Burton, Chestnut Hill, Phila., Pa.; Wallace R. Pierson, Cromwell, Conn.; George Asmus, Chicago, Ill.; E. Allan Pierce, Waltham, Mass.; T. B. Langhans, Pittsburgh, Pa.; Frank A. Friedley, Rocky River, Ohio; Robert Simpson, Clifton, N. J.; J. A. Peterson, Westwood, Cincinnati, Ohio; William F. Gude, Washington, D. C.; Leo Niesen, Phila., Pa. Advertising, W. F. Therkildson, 471 No. 5th street, Philadelphia, Pa. Tickets, E. J. Fancourt, Philadelphia, Pa. Decoration, John P. Habermehl. Treasurer for local expenses, Alfred Burton. Schedule for Cut Flowers, Harry O. May, Summit, N. J.; Robert Simpson, Clifton, N. J.; Adolph Farenwald, Roslyn, Pa. Official headquarters will be at the office of S. S. Pennock, 1612 Ludlow street, Phila. Pa. The matter of providing a refreshment stand was discussed and referred to the manager with power. The matter of complimentary tickets to the members of the Philadelphia Florists' Club and the Pennsylvania Horticultural Society who assist in the work of the exhibition was referred to Geo. Burton. The distribution of tick-

Meetings Next Week

Monday, Dec. 4.

Bernardsville Horticultural Society, Horticultural Hall, Bernardsville, N. J.
Elberon Horticultural Society, Fire Hall, Elberon, N. J.
Houston Florists' Club, Chamber of Commerce Rooms, Houston, Tex.
Montreal Gardeners' and Florists' Club, Montreal, Canada.
New Bedford Horticultural Society, New Bedford, Mass.
Washington Florists' Club, Washington, D. C.

Tuesday, Dec. 5.

National Association of Gardeners, Washington, D. C. Annual Convention.
Florists' and Gardeners' Club of Holyoke and Northampton, Mass.
Lake Geneva Gardeners' and Foremen's Association, Horticultural Hall, Lake Geneva, Wis.
Los Angeles County Horticultural Society, Los Angeles, Cal.
Paterson Floricultural Society, Y. M. C. A. Bldg., Paterson, N. J.
Philadelphia Florists' Club, Horticultural Hall, Philadelphia, Pa.
Pittsburgh Florists' and Gardeners' Club, Fort Pitt Hotel, Pittsburgh, Pa.

Wednesday, Dec. 6.

Tuxedo Horticultural Society, Tuxedo Park, N. Y.

Thursday, Dec. 7.

Albany Florists' Club, Albany, N. Y.
Reading (Pa.) Florists' Association, Reading, Pa.
Southampton Horticultural Society, Odd Fellows Hall, Southampton, N. Y.

Friday, Dec. 8.

Connecticut Horticultural Society, County Building, Hartford, Conn.
Westchester and Fairfield Horticultural Society, Doran's Hall, Greenwich, Conn.

Saturday, Dec. 9.

Dobbs Ferry Gardeners' Association, Dobbs Ferry, N. Y.

ets to the press is to be left with W. F. Therkildson.

The matter of the price of ticket was discussed at some length, and it was resolved that florists, merchants or seedsmen who wish to buy tickets for distribution shall pay at the rate of 25c. each in lots of one hundred, and that the regular ticket of admission shall be 50c. In regard to children's tickets at reduced rates, this is to be left in the hands of the manager and ticket committee.

A motion was unanimously carried that it was the sense of the American Rose Society and of this meeting, that a resolution of thanks be extended to the Pennsylvania Horticultural Society for the use of Horticultural Hall, and the courtesies extended to us, and that the secretary be directed to forward this sentiment in an official communication to the Society.

BENJAMIN HAMMOND, Sec.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Public notice is given that W. Atlee Burpee & Co., Philadelphia, Pa., offer for registration the Dahlias described below. Any person objecting to the registration, or to the use of the proposed names, is requested to communicate with the secretary at once. Failing to receive objection to the registration the same will be made three weeks from this date.

Descriptions: — Paeony-Flowered Dahlia. Parentage: Seedling from Mrs. Hugh Dickson. An early and profuse bloomer. Flowers large. Color, salmon pink, heavily flushed yellow and amber. The central twisted florets are clear yellow with suffusion of salmon and amber. Height, 4½ to 5 feet. Name, Mrs. John Gribbel.

Decorative Dahlia Parentage: Flora crossed Baron G. de Grancy. Flowers of medium size, pure white, of good depth, and produced on very long stiff stems. Height 4½ feet. Name, Jean Kerr.

Paeony Flowered Dahlia. Parentage: Seedling from Mrs. Hugh Dickson. Flowers of large size. An early and continuous bloomer. Color, salmon-buff with pinkish-salmon suffusion. Reverse of petals reddish-salmon. Height 4½ to 5 feet. Name, John D. Rockefeller.

Nov. 25, 1916. JOHN YOUNG, Sec.

CHRYSANthemum SOCIETY OF AMERICA.

The following reports have been submitted by the committee appointed by the Society:

Exhibited at New York, Nov. 8, by Carl Schaeffer, supt. for Richard Mortimer, Tuxedo, N. Y.; all anemone varieties. Yellow Prince, yellow, points 90; Mortimer, light pink, yellow center, points 88; Old Rose, old rose, bronze tint, points 92; Titian Beauty, bronze, red shadings, points 90; June, light pink, points 85; Graf von Oriola, deep pink, yellow center, points 96; Wee Wah, bright bronze, points 90; H. J. Heinz, light yellow, deep yellow center, points 87; Wilfreda, amber bronze, points 88; Graf von Fleming, white, points 88; Pepita, white tinted pink, points 90; Clemencia, deep lavender, points 87; Innocencia, blush tinted pink, points 94;

Exhibited at New York, Nov. 18, by E. G. Hill Co., Richmond, Ind. Whittier, yellow, Jap. Inc., com. points 85; Browning, amber bronze, Jap. Refl., com. points 80; at Philadelphia, Nov. 18, Whittier, yellow, Jap. Inc., com. points 89; Browning, light bronze, Jap. Inc., com. points 85.

Exhibited at Chicago, Ill., Nov. 18, by Deerfield Nurseries, Deerfield, Ill.

THANKSGIVING

For the Planter of Outdoor Material is

NOT YET DUE

He must wait until Spring time to find out what he has to be thankful for. It makes all the difference in the world whether you planted the sturdy, well-ripened Maine-grown trees, shrubs and herbaceous stock, or "economized" on stuff raised in milder latitudes.

Consult us NOW about your requirements for next Spring. We can supply the goods which bring a PERENNIAL THANKSGIVING.

MOUNT DESERT NURSERIES, BAR HARBOR MAINE

Seedling, white greenish center, anemone, points 85; by Henry Wehrmann, Maywood, Ill., Annie, white, yellow center, Anemone, points 90.

Exhibited at Boston, Nov. 18, by F. Dorner & Sons Co., Lafayette, Ind. Sport from pink seedling, light pink Jap. Refl., com. points 88.

Chas. H. Totty, Madison, N. J., has changed the name of variety Golden Champion to Nag-ir-roc.

CHAS. W. JOHNSON, Secy.

TEXAS STATE FLOWER SHOW.

The exhibition at Dallas brought out a splendid support both from local growers and those at a distance. The awards on the three days showed up as follows:

Chrysanthemum blooms, local exhibitors—Drumm Seed & Floral Co., Fort Worth, six 1st, one 2nd; Lang Floral & Nursery Co., Dallas, two 1st, five 2nd; Texas Nursery Co., Sherman, two 1st, one 2nd; Bird Forrest, Waxahachie, one 2nd. Chrysanthemum plants—Texas Nursery Co., one 1st; Lang Floral & Nursery Co., one 2nd.

Chrysanthemum blooms, out-of-state exhibitors—Denver Wholesale Florists' Co., two 1st, one 2nd; Poehlmann Bros. Co., Chicago, one 1st, two 2nd; Mrs. R. F. Darbee, San Francisco, one 1st, one 2nd. Chrysanthemum plants—Stuppy Floral Co., St. Joseph, Mo.

Roses, local growers—Texas Nursery Co., one 1st; Lang Floral & Nursery Co., one 1st, one 2nd. Out-of-state growers—Poehlmann Bros. Co., four 1st, one 2nd; Gullett & Sons, Lincoln, Ill., one 1st, three 2nd.

Carnations, local growers—J. F. McAdam, Fort Worth, four 1st; Texas Nursery Co., Drumm Seed & Floral Co., Wichita Falls, each one 2nd. Out-of-state growers, Denver Wholesale Florists' Co., three 1st, one 2nd; Gullett & Sons, one 1st, two 2nd.

All of the prizes in the class for single specimen chrysanthemum blooms were won by Mrs. R. E. Darbee, there being no others in competition. The sweepstake prize of the out-of-state entries was also won by Mrs. R. E. Darbee.

General exhibit of plants and novelties, Lang Floral & Nursery Co., 1st; Stuppy Floral Co., 2nd.

Exhibit of blooming plants, Stuppy Floral Co., 1st; Poehlmann Bros., 2nd; Lang Floral & Nursery Co., 3rd.

Collection of ferns, Lang Floral &

Nursery Co., only entry in the fern section.

Table decorations, Lang Floral & Nursery Co., 1st; Dallas Floral & Nursery Co., 2nd; Texas Nursery Co., 3rd.

Brides' bouquet, McKinney Nursery Co., Dallas, 1st; Lang Floral & Nursery Co., 2nd; Texas Nursery Co., 3rd. Corsage bouquet, McKinney Nursery Co., 1st; Lang Floral & Nursery Co., 2nd; Dallas Floral Co., 3rd.

Basket of flowers, Lang Floral & Nursery Co., 1st; Texas Nursery Co., 2nd; Dallas Floral Co., 3rd.

Tarrytown, N. Y., Nov. 26.—John D. Rockefeller was aroused from his sleep early today by the explosion of a boiler in one of the large greenhouses on his estate here. Servants were dispatched to find out what had caused the loud report, and when Mr. Rockefeller learned what had happened he went back to bed.

Many valuable plants and flowers were destroyed by the explosion. A watchman in the building at the time barely escaped injury.

LIST OF SURPLUS STOCK AT REDUCED PRICES

DUTCH HYACINTHS

Strictly First Size, or Exhibition, Bulbs:

600 Gigantea, 250 Koh-i-noor, 550 La Grandesse, 400 General Kohler, 500 Noble par Merite, 250 Gertrude, 675 L'Innocence, 400 Grand Monarque, 200 Garrick, etc. \$4.50 per 100, \$35.00 per 1,000

Second Size, Named:

650 Grand Maitre, 300 Cardinal Wiseman, 725 Gertrude, 1000 L'Innocence, 950 Gigantea, 950 La Grandesse, 500 Garrick, 500 Noble par Merite, etc. \$3.50 per 100, \$25.00 per 1,000

Third Size, Named:

250 Grand Monarque, 500 Sir Wm. Mansfield, 450 Moreno, 1000 Garrick, 550 La Victoire, 2200 Gertrude, 250 Johan, etc. \$2.50 per 100, \$20.00 per 1,000

Separate Colors, Single:

1300 Rose, 2500 Pure White, 1500 Light Blue, 750 Dark Red, 875 Blush White, and 675 Dark Blue. \$2.00 per 100, \$16.00 per 1,000

Miniature, Named:

1200 La Grandesse, 1300 L'Innocence, 1400 Gigantea. \$1.50 per 100, \$12.50 per 1,000

TULIPS

Double Early:

2000 La Candeur per 1000 \$9.00

1750 Le Matador 15.00

1900 Murillo 10.00

1300 Rubra Maxima 10.00

1800 Salvator Rosa 11.00

1250 Tournesol (Red and Yellow)..... 17.50

3000 Schoonord (White Murillo)..... 14.00

6500 Extra Fine Mixed..... 6.50

Single Early:

2750 Cramoise Brilliant \$8.00

4500 Keizerskroon 12.50

8500 La Reine 7.50

900 Le Matelas 15.00

1100 Pottebakker (White) 13.50

1250 Prince of Austria 12.00

4250 Rose Grisdellin 7.50

1250 Rose Luisante 13.00

2500 Princess Helena 11.00

1000 Queen of Roses 15.00

8000 Extra Fine Mixed..... 6.00

Darwin:

1100 Mr. Farncombe Sanders.....\$15.00

1900 Massachusetts 16.00

950 Painted Lady 11.50

3000 Pride of Haarlem..... 13.00

1100 Prof. Francis Darwin..... 12.50

2750 Finest Mixed 8.50

Cottage, or May-Flowering: per 1000

950 Caledonia \$9.00

750 Isabella (Blushing Bride)..... 9.00

1100 Picotee (Maiden's Blush)..... 10.00

1000 Sweet Nancy 8.00

1000 Finest Mixed 8.00

Parrot:

1250 Admiral of Constantinople... \$9.00

900 Lutea Major 9.00

950 Markgraf van Baden..... 9.00

1100 Perfecta 9.00

1300 Finest Mixed 8.00

NARCISSUS

3500 Emperor, double-nosed bulbs...\$17.00

2100 Emperor, first sized bulbs... 12.00

2000 Golden Spur, double nosed bulbs 21.00

1200 Princeps, double nosed bulbs 10.00

2200 Victoria, double-nosed bulbs 20.00

2000 Victoria, first sized bulbs... 11.00

1700 Barri Conspicuous 7.00

1000 Poeticus Ornatus, double nosed 7.50

2500 Poeticus 5.50

1500 Von Sion, double, double nosed 22.00

3000 Von Sion, Double, first sized, 11.00

1000 Paper White Grandiflora... 11.00

FREESIAS

1500 Purity per 1000 \$9.00

3500 Refracta Alba per 1000 8.00

SPANISH IRIS

1700 British Queen, 1000 Cajanus, 1500 Chrysolora, 700 Louise\$3.50 per 1,000

SPIREA

Gladstone case of 100 clumps, \$9.00; \$1.25 per dozen

Queen Alexandra..... case of 100 clumps, 10.00; 1.50 per dozen

F. R. PIERSON, - Tarrytown, New York

Obituary

William L. Kroeschell.

The trade was greatly shocked when news of the sudden death of Wm. L. Kroeschell, at the Illinois Athletic Club on Thursday eve., November 23, was announced in the local papers the following morning. Mr. Kroeschell was one of four brothers who in 1876 founded the firm of Kroeschell Bros. Co. for manufacturing boilers, in which business he was actively engaged to the day of his



WILLIAM L. KROESCHELL

death, having spent Thursday as usual in his office. Wm. L. Kroeschell was born sixty-one years ago in Nashville, Tenn., coming with his parents to Chicago when a child and receiving his education in the city schools. His first business venture was on the Board of Trade, later being member of the commission firm of Gerstenberg & Kroeschell and in 1900 he became active in the manufacture of boilers and was secretary and treasurer of the firm. In the branch of the firm which manufactures ice machines he was also secretary and director.

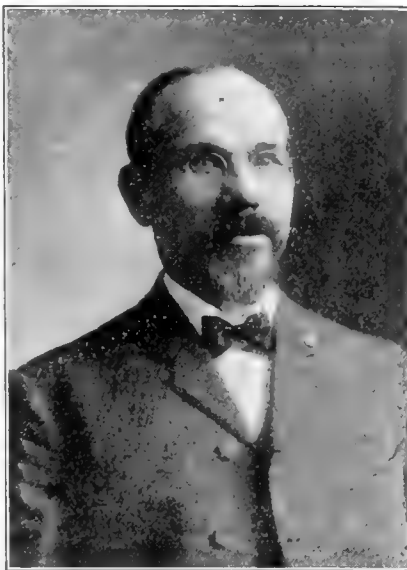
Mr. Kroeschell was a man who loved to meet with other men and, as a representation of one of the most important of the allied trades, he was well known to the florists, being a life member of the Society of American Florists, the American Carnation Society, the Chicago Florists' Club, the American Rose Society and the American Vegetable Growers' Association, at whose convention held this summer many in the trade saw him last, when he was toastmaster at the banquet. He was also a member of the Board of Trade and the Illinois Athletic Club, and had a beautiful home at Winnetka, a north-shore suburb.

Mr. Kroeschell leaves a wife, two daughters, Mrs. Robt. Butz and Mrs. E. C. von Ammon, an aged mother, a sister and two brothers. His father who was a designer and hydraulic

and mining engineer, and built the first tunnel for water intake in Chicago, has been dead for several years.

S. J. Reuter.

S. J. Reuter, senior member of the firm of S. J. Reuter & Son, Westerly



S. J. REUTER

R. I., passed away on the night of Thursday, November 23. Mr. Reuter had been in delicate health for some

time and his death was not unexpected, and his family had realized that he would never get out again.

S. J. Reuter was born in the city of Mainz, Germany, October 7, 1851, and came to America in 1872, landing in New York on Election Day of that year. He remained in New York until February and from there went to Norwich where he worked on two private places as gardener and all-around man, staying there a little less than eight years, when he went to Mystic, Conn., for a few months and then moved to Westerly where he established the present business in 1880. In the year 1907 the business which had hitherto been in his own name was incorporated, his son Louis J. going into the company. He was a member of the Society of American Florists and life member of the American Rose Society.

Mr. Reuter was an energetic, very hard worker. He was a man who would push through anything which he undertook, and by virtue of this he built up by degrees a splendid establishment. He was a business man of strict integrity and possessed in a large degree those manly qualities which win respect and personal esteem and leaves a record of achievement of which his family may well feel proud. The funeral on Sunday was under Masonic direction and was attended by a large concourse of friends among whom were Patrick Welch, E. Allan Peirce, W. H. Elliott

(Continued on page 735)

PLANTS DE LUXE

AZALEAS, Petrick and Vervaeneana,
\$12.00 per doz. and upwards.

PRIMULA chinensis, \$3.00 a doz. and upwards.

BEGONIAS, Cincinnati and Melior, \$9.00 to \$12.00 per doz.

Also **PALMS, FERNS, ARAUCARIAS,**
Etc.

A fine lot of Euphorbia and Poinsettias

W. W. EDGAR CO., WAVERLEY,
MASS.

BAY TREES

A new importation has been received from Belgium in prime condition, as nice a lot of trees as we have ever imported. Prices are slightly advanced over previous seasons, due to higher importation charges. All of these are supplied in the Belgian tubs in which they were imported.

Standard or Tree Shaped Bay Trees			
Size of Tubs	Height of Stem	Diameter of Crown	Price Each
8 inch	18 inches	16 inches	\$3.50
12 "	38 to 44 "	18 to 20 "	6.00
12 "	38 to 44 "	20 to 22 "	6.00
12 "	40 to 46 "	20 to 22 "	7.50
12 "	40 to 46 "	24 to 26 "	7.50
15 "	26 to 32 "	24 to 30 "	7.50
18 "	44 to 52 "	30 "	9.00
18 "	46 to 52 "	32 "	12.00
20 "	40 to 48 "	32 to 36 "	18.00

Pyramid Shaped Bay Trees			
Size of Tubs	Diameter at Base	Height	Price Each
10 inch	18 inches	3½ to 4½ feet	\$3.50
14 "	18 to 20 "	5 to 5½ "	6.00
14 "	22 to 24 "	5½ to 6 "	7.50
18 "	24 to 26 "	6 to 6½ "	12.00
18 "	28 to 32 "	7½ to 8 "	15.00

HENRY A. DREER

714-716 Chestnut Street - - - - PHILADELPHIA, PA.
THE PRICES QUOTED ABOVE ARE FOR THE TRADE ONLY



TWELFTH ANNIVERSARY NUMBER

AND

CHRISTMAS SPECIAL

Will be Issued under Date of
DECEMBER 9, 1916

A Deserving and Business Promoting Issue as heretofore — **Patronized by the Best Trade.** Goes to press on Thursday, December 7. Send advertising copy a few days in advance and give us time to place it well.

NO ADVANCE IN SPACE RATES

BULBS BOXWOODS AT AUCTION

Do Not Forget Salesdays — Monday and Thursday
Consignments Solicited

JOHNSON & MILLANG, Inc., Auctioneers

Coogan Building, 55-57 West 26th Street, New York

(Under Cut Flower Exchange)

Salesdays Monday and Thursday at 10 A. M.

10,000 square feet devoted to our auction business

WRITE FOR CATALOGUE

GREENHOUSE FUMIGATION

In view of the frequent inquiries made concerning methods for fumigating greenhouses with cyanide, the following directions recently published by the New Jersey Agricultural Experiment Station at New Brunswick are here quoted:

"Inasmuch as greenhouses differ considerably in tightness and construction, and as past experimenters have in many cases failed to note moisture and temperature conditions, the subject of greenhouse fumigation is in a somewhat unsettled state, and such a condition will continue to prevail until some one makes a serious and long-continued study of the subject, taking into consideration all factors which have a bearing on the result.

"Concerning the amount of potassium cyanide to use against the white fly, A. W. Morrill, in Circular 57 of the Bureau of Entomology, U. S. Department of Agriculture, states that between 1/5 and 1/6 of an ounce per 1000 cubic feet of space for 3 hours' exposure has been used with success, also that 1/3 of an ounce per 1000 cubic feet of space used for more than 30 minutes destroyed only the adults and slightly injured the plants (tomato and cucumber), and that in one instance 1 ounce per 1000 cubic feet of space gave good results in an all-night exposure. He also states that probably 1/4 of an ounce of cyanide for each 1000 cubic feet for an exposure not exceeding 3 hours represents the amount which will prove most effective for treatment without injury to tomato or cucumber. R. D. Whitmarsh, in Circular 154 of the Ohio Agricultural Experiment Station, states that in general the amount of cyanide necessary for white fly work varies from 1/5 to 1/6 of an ounce per 1000 cubic feet for 3 hours to 1 ounce per 1000 cubic feet lasting overnight, depending on the construction of the greenhouse. He further states that it is well to have the temperature as low as 55 if possible for best results, and that the fumigation should be repeated in 2 weeks. Mr. J. J. Davis, in the 27th Report of the State Entomologist of Illinois, advises for white fly in moderately tight houses, 1 ounce of cyanide to 3500 cubic feet of space for an all-night exposure, the operation to be repeated 3 or 4 times at intervals of 10 days to 2 weeks. In his general fumigation directions he advises that if possible a temperature above 60 to 65 deg. F. should be avoided, since at a higher one the plants are more liable to be injured.

"A. B. Gahan, in Bulletin 119 of the Maryland Agricultural Experiment Station, states that in houses contain-

ing a number of different kinds of plants he would recommend the use of not more than 3/4 of an ounce of cyanide for each 1000 cubic feet of space. This charge, he says, will be sure to kill thrips, aphids and white fly if left in a closed house over night, the following plants being uninjured by such an exposure—violet, primula, chrysanthemum, begonia, nasturtium, alternanthera, lantana, verbenia, orchid, snapdragon, asparagus fern, sweet pea, coriopsis, mignonette, carnation, croton, cyclamen, Easter lily, geranium, rose, cucumber and lettuce. He further states that a long exposure to a moderate amount of gas is less likely to cause injury to most plants than a short exposure to a heavy charge.

"Our experience in New Jersey with white fly on tomatoes leads us to advise for a modern tight greenhouse 5/8 of an ounce to 1000 cubic feet of space for an exposure of 20 to 25 minutes, having the temperature from 60 to 70 deg. F., and the humidity 70 per cent.

"Prof. M. A. Blake, in the New Jersey Agricultural Experiment Station Report for 1913, tells of the successful results obtained against the rose aphid in a tight, well-glazed greenhouse, using 5/8 of an ounce of cyanide to 1000 cubic feet for an exposure of 16 minutes with the temperature above 65 deg. F., and where moisture conditions were normal for a rose house. From a series of tests conducted at the New Jersey Stations, he remarks that fumigations against the rose aphid are not likely to be successful where the temperature of the house is 60 deg. F. or below, inasmuch as metabolism in insects is largely determined by temperature, and when this is low the insects resist the effects of the cyanide. The tenderness of the plants should also be considered. The more tender and soft the growth the more likely injury will follow the use of cyanide.

"W. J. Schoene, in Technical Bulletin No. 30 of the New York State Agricultural Experiment Station, in a series of fumigation tests with brown-tail moth caterpillar, found that a greater number of caterpillars survived the fumigations made at a low temperature than at a higher temperature, also that fumigations made under humid conditions were more destructive to the larvae than tests conducted in dry air. He suggests that the difference in the results and the resistance of the larvae to fumigation were due largely to the conditions incidental to hibernation, such as the reduced moisture content and comparative inactivity of the larvae.

"Taking into consideration the work of Mr. Schoene and our own experience

in fumigation, we cannot at present help but be advocates of heavy charges of cyanide and short exposure. However, as has been stated before, the entire subject needs a thorough investigation from all angles.

Directions for Fumigating With Hydrocyanic Acid Gas.

"Fumigate only at night. Have the foliage of the plants dry. The materials used in the generation of the gas are 98 per cent. potassium cyanide, commercial sulphuric acid and water. For every ounce of cyanide use 2 fluid ounces of sulphuric acid and 4 fluid ounces of water.

"1st—Determine accurately the number of cubic feet of space in the greenhouse to be fumigated.

"2nd—Find out the total amounts of cyanide and sulphuric acid necessary, and divide these into parts or charges representing each 25 feet of length of the greenhouse.

"3rd—Weigh out the desired amounts of pulverized cyanide for each charge and wrap each in a single thickness of cheesecloth or place in a thin paper bag.

"4th—Measure out the necessary amounts of sulphuric acid and water and place in glazed earthenware dishes or glass receptacles (do not use metal). Pour the water in first and add the acid slowly, mixing with a glass rod or stick. The container should never be more than 1/4 full of acid and water, because the action which follows the introduction of the cyanide will result in much of the material being splashed out. Ordinary glass tumblers or bowls, 6 or 8 inches high, about 3 or 4 inches wide, are often suitable.

"5th—Make the house as tight as possible by closing all ventilators and stopping up all cracks.

"6th—Distribute the bowls containing the acid and water at the desired distance apart and place beside each the bag of cyanide.

"7th—Commence at the far end of the greenhouse and work toward the exit, dropping each bag of cyanide gently into the bowl. If a number of charges are necessary, two or more operators will need to work together.

GLADIOLI

New Catalogue Ready

JOHN LEWIS CHILDS, Inc.
FLOWERFIELD, L. I., N. Y.

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.

WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.

ROOSEVELTS—\$5 per 100, \$40 per 1000.

BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

After the last bag has been disposed of, leave the greenhouse immediately and close and lock the door.

"8th—After the fumigation has gone on the desired length of time, thoroughly air the house for at least 1/2 an hour before entering.

"9th—Take out the containers, keeping face averted so as not to breathe the odor which comes from them, and bury the contents in the ground.

"10th—Wash out the containers with clear water and use for no other purpose. As soon as the cyanide comes in contact with the acid and water, the gas starts to come off, and by using many containers or generators a quicker distribution of the gas is assured.

"Caution.—Potassium cyanide is a deadly poison when taken internally, and the gas generated by the addition of cyanide to sulphuric acid is also a deadly poison when inhaled. As a result, one should use extreme care in handling these materials. With proper precautions and care there is no danger. No matter how familiar one is with fumigation, it will not pay to become careless."

OBITUARY.

(Continued from pag. 732)

and Mrs. Elliott from Boston and John Young from New York.

Mr. Reuter is survived by his widow, one son and two daughters. In the past few years most of the business responsibility has been carried by his son Louis.

Bayard Thayer

Just as HORTICULTURE goes to press the sad news comes of the sudden death, this morning (Wednesday, November 29) of Bayard Thayer, patron of horticulture and owner of one of the finest garden estates in this country, at South Lancaster, Mass. Mr. Thayer's age was fifty-four years. Other than the foregoing, we have no details. The news of the passing away, in the prime of life, of one so useful and liberal in behalf of American horticulture, comes as a terrible shock.

Joseph H. Cushing

J. H. Cushing, who for many years conducted a florist business under the name of the Quidnick Greenhouses, died on November 25 at his home in Quidnick, R. I., aged 65 years. Being in failing health, Mr. Cushing sold out his business and retired last March. He leaves a widow, one daughter and a grandson.



IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

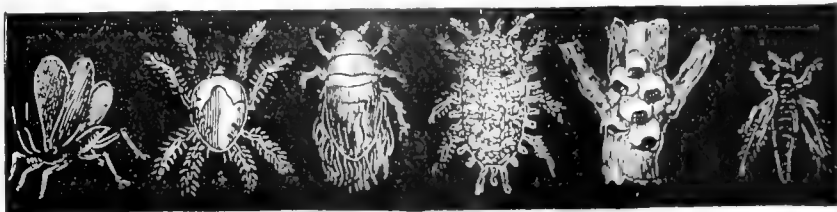
Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON

Hammond's Thrip Juice No. 2

REGISTERED

A Contact Insecticide, Useful and Reliable, Used for 30 Years in Greenhouses, and on Plants, Grape Vines, Trees and Shrubs



Some common Sucking Insects, magnified.

HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.

TWO NEW ROSES OF HIGH DEGREE.

We saw two of C. H. Totty's new rose pets in the wholesale market recently and were greatly impressed with their beauty and other splendid qualities as forcing roses. "Cleveland" has foliage of unrivalled thickness and lustre and the color is the purest of pure, the pink merging into luminous orange at the base of the petals and it has been demonstrated that this variety holds its color persistently all through the hot weather. Nellie Parker is a companion novelty also raised by Dickson. Its color is a soft Daybreak, a tint rarely found in roses.

BAILEY'S NEW STANDARD Cyclopedia of Horticulture

Six large quarto volumes. More than 3,600 pages. 24 exquisite full-page color plates. 96 full-page sepia halftones and more than 4,000 text engravings. 500 collaborators. Approximately 4,000 genera, 15,000 species and 40,000 plant names.

The new Standard Cyclopedia of Horticulture has been freshly written in the light of the most recent research and experience. It is not merely an ordinary revision or corrected edition of the old Cyclopedia, but it is a new work from start to finish with enlarged boundaries geographically and practically; it supersedes and displaces all previous editions or reprints of every kind whatsoever. It is both an Encyclopaedia and a Manual, for with the aid of its Synopsis and Key, amateur and professional alike may quickly identify any plant, shrub or fruit contained within the set, and then receive expert instructions for its cultivation. Price \$6.00 per volume. Five volumes have now been issued and the others will follow in succession. Order from

HORTICULTURE PUBLISHING CO.

147 Summer Street, Boston, Mass.



The Recognized Standard Insecticide. A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Aunts, etc., without injury to plants and without odor. Used according to direction, our standard insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

1/2 Pint, 25c.; Pint, 40c.; Quart, 75c.; 1/2 Gallon, \$1.25; Gallon, \$2; 5 Gallon Can, \$9; 10 Gallon Can, \$17.50.

Directions on package.

LEMON OIL COMPANY

Dept. S. 420 W. Lexington St., Baltimore, Md.



NIKOTEEN

For Spraying

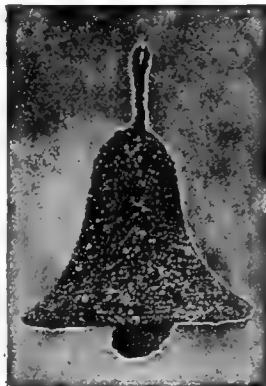
APHIS PUNK

For Fumigating

Ask Your Dealer For It.

NICOTINE MFG. CO.
ST. LOUIS

MICHELL'S CHRISTMAS GREENS



HOLLY (Loose)	
Extra Selected Quality	
Per full case	\$5.00
Per 5 cases	22.50
Per 10 cases	42.50
Selected Quality	
Per 1/2 case	\$2.00
Per 1/4 case	3.00
Per full case	4.25
Per 5 cases	18.75
Per 10 cases	35.00
HOLLY WREATHS	
Extra Fine	50 100
	\$5.75 \$11.50
Mitchell's Special	6.25 12.50
Special	7.75 15.50
LAUREL WREATHING	
25-yard lots	61¢c. per yard
100 yard lots	61¢c. per yard
1000 yard lots	55¢c. per yard

LYCOPODIUM (Ground Pine)	
Loose for Making Up	
5 lb. lot, \$0.60	50 lb. lot, \$4.75
10 lb. lot, 1.10	100 lb. lot, 9.00
LYCOPODIUM WREATHING	
10 yards	\$0.70
100 yards	6.50
LYCOPODIUM WREATHS	
12 inch, each	\$0.30
12 inch, per doz.	3.50
CUT BOXWOOD	
Fresh, 50 lb. box	\$8.00
NATIVE MISTLETOE	
1/2 case	\$3.00
1/4 case	5.50
Full case (16 cubic feet)	10.00

MEXICAN MISTLETOE	
50c. per lb.; box of 25 lbs., at 40c. per lb.	
MOSS (Green Lump)	
Extra Fine, per bbl. bag..	\$1.35
SHEET MOSS	
Extra Fancy, per bale...	\$2.00
SPHAGNUM (Dry)	
Per bbl. bale	\$0.60
Per 5 bbl. bale	2.00
Per five 5 bbl. bales	9.00

P. S. New customers who may not be rated in Dun's or Bradstreet's will kindly send money order or trade references with order to avoid delays in shipment of Christmas Greens.

HENRY F. MICHELL CO., 518 Market Street, Philadelphia

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

One Week's Imports

Imports at the port of New York, for horticultural materials, for the week ending Nov. 18th, were recorded as follows:

Bulbs—France, \$1,780; Netherlands, \$776; England, \$569; Japan, \$16,999.

Plants—Belgium, \$94; France, \$35; Netherlands, \$229; England, \$751; Ireland, \$361; Bermuda, \$261; Panama, \$98; Brazil, \$135; Columbia, \$2,473; Japan, \$16.

Red clover seed—Chile, \$11,154.

Clover seed—Canada, \$9,801.

Other grass seed—Scotland, \$511; Ireland, \$5,385; Canada, \$2,356.

Other seeds — Denmark, \$640; France, \$31,477; Italy, \$811; England, \$239; Canada, \$45; Spain, \$563; Hong-kong, \$242.

Dried blood—Argentina, \$4,640.

Other fertilizers—Scotland, \$102; Argentina, \$14,826.

PUBLICATIONS RECEIVED.

The Twelfth Annual Report of the Canadian Seed Growers' Association, for the year ending March 31, 1916, has been received. Part I contains the minutes of the Annual Meeting and Part II is devoted to Addresses and Contributions.

"Peggy Raymond's School Days." By Harriet Lummus Smith. This is another gift book, published by the Page Company, Boston, a number of whose holiday offerings we reviewed last week. It is the third in the Friendly Terrace Series. The story has no lack of thrilling incidents and is a worthy sequel to its predecessors, "The Girls of Friendly Terrace" and "Peggy Raymond's Vacation." Price \$1.50.

SHAMROCK TRUE IRISH

Trade packet 25 cts., oz. \$1, 1/4 lb. \$3, lb. \$10

5% Discount, Cash with Order.

ARTHUR T. BODDINGTON CO., Inc.
128 Chambers Street, New York

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

Chatterbox, 1916.—Chatterbox is the acknowledged king of all juvenile books published in the English language. Chatterbox is not made up of "rehashed" of old material, but the stories are especially written and the illustrations made for each volume, regardless of cost. The Annual grows in popular favor yearly and maintains its enviable position as the best juvenile publication. Price \$1.25. The Page Company, Boston.

"Pollyanna Calendar." A handsome holiday gift, with a richly embellished page for each week in the year on each of which is inscribed an appropriate quotation from the popular "Glad Book." The Page Company, Boston.

OUT OF THE GINGER JAR.

If all the members of the American Rose Society were as good workers as Robert Pyle, of the Conard & Jones Co., there would be nothing else heard of in the horticultural world but the A. R. S. He took in seventeen new members after his recent lecture in Pittsburgh. We are not all Robert Pyles, able to pull in piles like this, but we can all do a little. If each of us should send in one, that would double the membership, and doubling the membership doubles the influence. The president, Samuel S. Pennock, is a great worker himself, but his other real greatness

is in his ability to enlist the enthusiasm of everybody else around him—including the Robert Pyles.

G. C. W.

NEW CORPORATIONS

Tampa, Fla.—Allen & Reils Seed Co., capital stock, \$10,000. Incorporators, D. C. Gillett, H. F. Reils and A. L. Allen.

Little Ads. That Bring Big Returns

Little Ads. in our Classified Buyers' Directory bring big returns to both advertiser and purchaser.

Anything wanted by florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium.

THEY COST ONLY ONE CENT
A WORD UNDISPLAYED

Don't fail to read over these Ads. in each issue and you may find one or more that will prove profitable to you.

Lilium Harrisii Bulbs

	Per 100	Per 1000
5 in. to 7 in.	\$4.50	\$36.00
7 in. to 9 in.	8.00	72.00

**PAPER WHITE NARCISSUS
GRANDIFLORUS**

Prices on Application

WE OFFER to FLORISTS a
CHOICE SELECTION of HYA-
CINTHS, TULIPS, Etc. Etc., for
forcing or outdoor planting.

Send us a list of your require-
ments and we will give you at-
tractive special prices.

J. M. THORBURN & CO.

53 Barclay Street
Through to 54 Park Place
NEW YORK CITY

KELWAY & SON

SPECIALIZE IN

SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or
Forward

Only Address, LANGPORT, Eng

Burpee's Seeds
PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT

J. BOLGIANO & SON
WHOLESALE FIELD AND GARDEN SEEDS
Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragons on
the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.
PHILADELPHIA, PA.

My new Price List of
**WINTER-ORCHID-FLOWERING SWEET
PEA SEED**

Has been mailed. If you have not received
a copy, send me postal. Part of new crop
will be ready early in July.

ANT. C. ZVOLANEK
Sweet Pea Ranch Lompoc, Cal.

**HOT-HOUSE
GRAPES**

Strong Planting Canes \$3.50 each
Strong One Year Canes 2.00 each

IN 14 VARIETIES, INCLUDING

**Black Hamburg, Gros Colmar, Madresfield
Court and Muscat of Alexandria**

R. & J. FARQUHAR & CO.
BOSTON, MASS.

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.**LILIUM GIGANTEUM**

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

ROMAN J. IRWIN

108 West 28th St., NEW YORK

SPECIAL OFFER

LILIUM FORMOSUM

8/11, 225 to a case.....	\$80.00	per 1000
9/10, 200 to a case.....	\$5.00	per 1000
11/13, 100 to a case.....	15.00	per case
LILIUM FORMOSUM—Black Stem		
8/10, 200 to a case.....	\$80.00	per 1000
9/10, 180 to a case.....	90.00	per 1000
11/13, 100 to a case.....	16.00	per case

See Classified List for Seasonable Plants,
Rooted Cuttings, Seeds and Bulbs.
Write for Complete Stock Circular.
SATISFACTION GUARANTEED.

THOMAS J. GREY COMPANY

SEEDS, BULBS AND IMPLEMENTS
WHOLESALE AND RETAIL.

Reselected Strains in Seeds.
Improved styles in Implements.
Catalogue upon application.

29 So. Market Street
BOSTON, MASS

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

SEEDS, BULBS, PLANTS

AND

Florists' Necessities

AMERICAN BULB CO.

172 N. Wabash Ave., Chicago, Ill.

**LILIUM FORMOSUM
LILIUM HARRISII
LILIUM GIGANTEUM**

Prices on Application. Write for 1916
Bulb Catalog.

JOSEPH BRECK & SONS' CORP.
47-64 North Market St., Boston, Mass.

W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries

166 W. 23rd St., NEW YORK

GARDEN SEED

BEEF, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
be quoted you upon application to

S. D. WOODRUFF & SONS
82 Dey St., NEW YORK and ORANGE, CONN.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

Penn.
The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.

BOSTON

FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

MAX SCHLING

22 West 59th St.

Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York

Telephone 1800-1808 Columbus

Of Interest to Retail Florists

NEW FLOWER STORES.

Alger, O.—H. O. Arnett.

La Salle, N. Y.—Max Grohmann.

Lockport, N. Y.—Fred G. Lewis,
Main St.

Quincy, Ill.—H. A. Gentemann, 714
Main St.

Sunbury, Pa.—C. E. Rossiter, 332
Market St.

Chicago, Ill.—Lincoln Floral Co.,
3154 Lincoln Ave.

San Francisco, Cal.—Pedrini & Fili-
pelli, 453 Bush St.

Minneapolis, Minn.—R. M. Chap-
man, Marquette Ave.

Racine, Wis.—West Side Flower
Shop, 912 Milwaukee Ave.

Columbia, Pa.—Mrs. Geo. G. Gold-
bach, 24 South Third St.

NEWS NOTES.

New Bedford, Mass.—William Keith,
a former member of the park board,
is seriously ill at St. Luke's hospital,
as the result of a shock.

Conshohocken, Pa.—Wm. H. Bald-
win has bought from Winfield S.
Harry the greenhouse property which
he has leased for the past three
years.

Brunswick, Me.—Walter L. Larock,
of Freeport, has purchased the green-
houses of Thomas Pegler on Jordan
avenue. Mr. Pegler has accepted a
position with Ernest Saunders in Lew-
iston and will begin his work there
the first of December. Brunswick
people regret to learn that Mr. and
Mrs. Pegler are to leave here. They
have conducted their business in such
a way that the good will left the pur-
chaser is a valuable asset.—*Brunswick Record.*

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspond-
ence in all the large cities of Europe and the British
Colonies. Telegraph and Cable address. Dardsflor.

Send Telegraph, Telephone or Mail orders
for florist service in this vicinity to

Howard & Smith

853 SO. OLIVE ST.

Los Angeles, Calif.

Every Order sure to receive
prompt and careful attention.

**JOHN BREITMEYER'S
SONS**

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good
sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery
Association.



GUDE BROS CO
4214 F STREET
WASHINGTON D C

GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE

National Capital

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2789
Members Florists Telegraph Delivery

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction

MEMBER F. T. D. A.

CHICAGO WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1896 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Member Florists' Telegraph Delivery Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State
St.

Albany, N. Y.—The Rosery, 23 Steuben
St.

Albany, N. Y.—William C. Gloeckner, 97
State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont
St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

Los Angeles, Calif. Howard & Smith,
833 So. Olive St.

New London, Conn.—Reuter's.

New York—J. H. Small & Sons, 505 Mad-
ison Ave., at 52d St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.
Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

REUTER'S Members Florists
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between

New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work

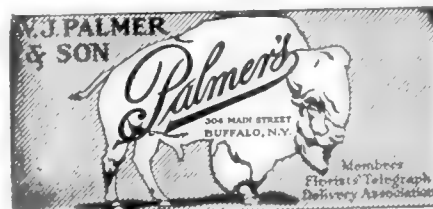
DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F.T.D. Association

NEWS ITEMS FROM EVERYWHERE

CHICAGO

Andrew Benson is booked to leave in December for another trip to South America to collect orchids for Poehlmann Bros. Co. Before leaving he has promised to give some of his experiences before the Chicago Florists' Club.

For the season of the year, Kroeschell Bros. Co. are having a fine run of business. During the past week orders have come from extreme parts of the country, one from the south, one from Maine and one from the state of Washington.

After repeated rumors to the effect that the E. C. Amling Co. are negotiating for the Green Truax Bldg., opposite their present location, it is now stated by their friends that a lease has been signed and that they will occupy the new store Jan. 1st, 1917.

J. Huebner, 11 W. Randolph street, says business is very satisfactory at his store, where a specialty is made of decorating for social functions, of which the season so far has been very full. Mr. Huebner has a collection of photographs of his work of which he is justly proud.

At the Poehlmann Bros. Co. potted chrysanthemums are nearly gone, only a few remaining for Thanksgiving sales. A good supply of azaleas, cyclamen, and begonias will leave no gap in the potted plant department, however. Christmas and regular orders are showing that business is picking up all over the country.

At Frank Oechslein's the time of the potted chrysanthemum plants is over. About forty of the best standard varieties were grown with yellow in the lead, about evenly divided between large flowering pompon and single varieties, all grown to bush shape and in pots ranging from five to eight inches. Demand this year has been a little heavier for the large flowering, that is from two to four inches on bush plants.

The fall flower shows at the various parks are in full swing this week, and the park conservatories are open each evening till ten o'clock. These affairs are generally well patronized and this year one of the women's clubs led the way to a still larger appreciation of their value by holding a meeting there. It is not uncommon to find people who have lived in Chicago a lifetime and have never been inside the conservatories.

CINCINNATI.

A. K. Davis who was formerly in business in Bellevue is opening a new flower store in Newport, Ky.

Farrel & Co., are opening a flower store in the Galt House at Sixth and Main Sts. Mr. Farrel, formerly was with Julius Baer.

The R. G. Kootz Floral Co. are removing their store from its present location to the Gwynne Building at the busy corner of Sixth and Main streets.

BOSTON.

The New England Florist Supply Co. have recruited their staff for the Christmas business by the addition of William J. Flynn, a well-known member of the craft.

W. S. Spring, who for the last 16 years has been known as the Castle Square Florist, has recently opened a new store in the Auditorium Building in Malden. Mr. Spring has equipped his shop with neat up-to-date ideas and conveniences and is confident of success in his new undertaking.

R. & J. Farquhar & Co., have in course of construction some new plant houses at their Dedham nurseries in which an ingeniously designed, home-constructed concrete gutter is used between the houses. The houses are intended for hybrid roses. We noticed a new begonia at this place, of German origin, which although greatly resembling Glory of Cincinnati, is yet different and has some advantages over that popular sort, in the color of the foliage and the slightly deeper pink of the flowers. The latter is not so much due to the exact color of the petals as to the form of the flower which is somewhat cup shaped and thus showing more of the outside of the petal.

W. E. Fischer, who has been many years in the Boston Park Department, leaves here after thirty years' service to take the superintendency of the Cyrus McCormick estate at Lake Forest, Ill., succeeding E. O. Orpet, who has resigned and will go to the Pacific Coast.

On Monday night, November 27, Mr. Fischer was given a rousing farewell banquet and send-off at the Hotel Brewster by over one hundred friends in the Boston and Metropolitan Park departments and the florist and gardening profession. Wm. P. Glennon of Jamaica Plain was toastmaster and he was a brilliant success. Starting with P. Welch he succeeded in drawing out a line of high-class oratory such as is rarely equalled. The affair was under the management of Jas. B. Shea and those who know that prince of genial hospitality can faintly realize how it was carried out. As for Mr. Fischer he has something to remember as long as he lives even if he should rival Methuselah in that respect. He was presented, incidentally with a traveling bag, purse of gold, field glasses and a set of horticultural books, and on the Saturday before, he had been presented with a gold watch and chain by his associates at Franklin Park. Previous to the speech making a lively cabaret entertainment was given. The affair was one of the liveliest "pulled off" in Boston horticultural circles for many a year.

WASHINGTON, D. C.

An examination will be held by the Civil Service Commission on January 3, for scientific assistant in drug plant investigation at the Department of Agriculture, which position pays from \$1400 to \$1800 per annum.

Postmaster General Burleson has ordered the suspension of the rule which provides that domestic mail matter bearing on the address side adhesive seals or stickers, other than lawful postage, shall be treated as unmailable, during the period from December 1 to January 1. The suspension is granted in order to facilitate handling and delivery of mail during the Christmas holidays but postmasters are instructed to inform their patrons that such seals or stickers should not be placed on the address side of mail.

Announcement has been made by the White House of the following formal program of social events, starting with the Cabinet Dinner on December 12, the events coming this year three weeks earlier than usual; then follows the Judicial Reception on December 19; the Diplomatic Dinners on January 9 and 16, one of these being tendered to the representatives of the Allied nations, the other, to the representatives of Germany, Austria, and their allies; the Congressional Reception will be held on January 23, and the Supreme Court Dinner on January 30, and the reception to the Army and Navy on February 6, while the season will close February 13, with the Speaker's Dinner.

NEWPORT, R. I.

The Thomas Galvin Estate has gone out of business. The greenhouses were bought for removal by W. C. Vanicek.

Mr. Falkenholme, gardener at the Hutton place whose leg was amputated about three weeks ago is progressing satisfactorily toward recovery.

John Forbes, gardener at the August Belmont estate, Newport, is leaving to take charge of the new Schwab establishment in Pittsburgh, where it is said that half a million dollars will be spent on greenhouses alone.

PITTSBURGH

Randolph & McClements had the decorating for a debutante tea, which was the finest affair of its kind this season. Centering the tea table in the dining room was a large French basket filled with cattleyas and oncidiums with tea roses and adiantum, with yellow ribbons entwined. Maidenhair ferns banked the mantel shelf, and at each side were silver bowls filled with sunburst roses. Conventional decorations of specimen chrysanthemums and foliage were used throughout the other apartments.

ALWAYS LEADERS!

When you buy Bayersdorfer & Co. goods you get the best in the world.

BUY YOUR FALL SUPPLIES NOW

BASKETS BASKETS BASKETS

Chrysanthemum Baskets in Japanese novelty tints.

RED—RED—RED—specialties for Thanksgiving.

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Hampers and Flower Bowls.

Stock up now and have the goods to show customers. Send for prices and see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

Visitors' Register

Pittsburgh.—R. W. Peterson, Cincinnati, Ohio.

Boston.—Wm. Anderson, Lancaster, Mass.; J. B. Urquhart, Newport, R. I.; John Davey, Kent, O.; M. H. Koster, Boskoop, Holland; J. C. Peterson, Cincinnati, Ohio.

Chicago, Ill.—H. D. Soper, Rockford, Ill.; Mr. Leidiger of Edlefsen Leidiger Co., Milwaukee, Wis.; H. Philpott, Winnipeg, Man.; Martin Reukauf, repr. H. Bayersdorfer & Co., Phila.; Julius Staack, Moline, Ill.; F. W. Heckenkamp, Jr., Quincy, Ill.

Washington.—S. J. Mitchell, Houston, Texas; Jack D. Papendrecht, Warnaar & Co., Sassenheim, Holland; I. Rosnosky, H. F. Mitchell, Phila.; L. Kuyk, New York; M. van Waveren & Sons, Hillegom, Holland; Mr. & Mrs. L. A. Berckmans, Augusta, Ga.; L. J. Serger, Robert Craig Co., Phila., Pa.

DURING RECESS.

Chicago Bowlers.

Florists' team in North Shore Bowling League, November 21.

	1st	2nd	3rd
J. Huebner.....	204	177	176
F. Price.....	159	155	178
A. Zech.....	183	179	206
J. Einwech.....	185	211	200
P. Olsem.....	212	193	182

Boston Florists' Bowling League.

Scores recorded, November 23, 1916.

Flower Market ..	443	407	443	1293
N. E.	425	412	398	1235
Mc & Mc.....	433	428	447	1308
Flower Exchange.	380	430	427	1237
Robinson	413	423	453	1279
Carbone	453	402	420	1275
Snyder	401	422	385	1208
Waban	429	433	484	1346
Galvin	472	416	420	1308
Penn	399	407	404	1210

NEW YORK.

Henry S. de Forest has been secured by the King Construction Company, of North Tonawanda, N. Y., to represent them in New York City and surrounding territory, with an office in this city, beginning Nov. 22. Mr. de Forest is widely known in the greenhouse construction and heating business, having been 2nd vice-president and manager of the Boston office of the original Hitchings Company, afterwards manager in Boston for the Burnham, Hitchins and Pierson people, then sales manager for Pierson U-Bar Co. in New York and in Montreal. Mr. de Forest has been living in Montreal for a number of years since discontinuing with the U-Bar

Co., and we are pleased to welcome him back to the scene of his former activities.

Lewiston, Me.—A new corporation, the Maine Bulb and Flower Growers, has been formed by George W. Horne of Lewiston, Willard A. Noyes of Auburn, and George A. Whitney of Auburn. The temporary officers are: president, Mr. Whitney; treasurer, Mr. Noyes; secretary, Mr. Horne. They propose to purchase a farm, build greenhouses, raise and keep sufficient cattle, hogs and horses, and keep the soil at all times in high condition. The gladiolus will be their principal specialty at first and they have a big asset in the recognized superiority of Maine grown bulbs.



THREE DISTINGUISHED PHILADELPHIANS.

Left to right: John H. Dodds, Robert Craig, Samuel S. Pennock, judging exhibits at the Baltimore Show, November 14, 1916.

CYPRIPEDIUMS

\$15.00 per 100

Gardenias—Bouvardia—Beauties

Each item you find with us in quantity. We
Specialize in Specialties.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.25, 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

Telephone 3860 Madison Square

WOODROW & MARKETOS

WHOLESALE

Plantsmen and Florists

37 and 39 West 28th St., NEW YORK



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262 B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Nov. 30		ST. LOUIS Nov. 27		PHILA. Nov. 20	
Roses						
Am. Beauty, Special	30.00	to 40.00	40.00	to 50.00	40.00	to 50.00
" " Fancy and Extra	12.00	to 20.00	30.00	to 40.00	25.00	to 35.00
" " No. 1 and culls	2.00	to 6.00	.....	to 10.00	3.00	to 20.00
Russell, Hadley	2.00	to 20.00	6.00	to 12.00	3.00	to 20.00
Killarney, Hillingdon, Ward, Extra	4.00	to 8.00	6.00	to 10.00	4.00	to 8.00
" " Ordinary	1.00	to 2.00	4.00	to 6.00	1.00	to 4.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 8.00	.....	to 10.00	4.00	to 8.00
" " Ordinary	1.00	to 2.00	.....	to 4.00	1.00	to 4.00
Ophelia, Mock, Sunburst, Euler, Extra	3.00	to 8.00	8.00	to 12.00	4.00	to 10.00
" " Ordinary	2.00	to 3.00	4.00	to 6.00	1.00	to 4.00
Carnations	2.00	to 3.00	3.00	to 4.00	1.00	to 3.00
Cattleyas	35.00	to 75.00	50.00	to 60.00	50.00	to 75.00
Dendrobium formosum	.....	to 50.00	.....	to 10.00	60.00	to 75.00
Lilies, Longiflorum	8.00	to 10.00	12.00	to 15.00	5.00	to 8.00
Lilies, Speciosum	.....	to 10.00	.....	to 10.00	.....	to 10.00
Lily of the Valley	4.00	to 8.00	.....	to 6.00	3.00	to 6.00
Snape dragon	1.00	to 3.00	.....	to 10.00	8.00	to 8.00
Narcissi, Paper White	2.00	to 3.00	4.00	to 5.00	2.00	to 3.00
Chrysanthemums	4.00	to 20.00	5.00	to 35.00	3.00	to 25.00
Violets	.75	to 1.25	.50	to 1.00	.25	to 1.00
Marguerites	.50	to 1.00	.....	to 1.00	.50	to 1.50
Gardenias	.....	to 50.00	.....	to 10.00	20.00	to 30.00
Adiantum	.....	to 1.00	.....	to 1.00	.75	to 1.00
Smilax	12.00	to 20.00	.....	to 15.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	20.00	to 35.00	25.00	to 75.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568 570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

Stock in some respects **BOSTON** is barely sufficient for the heavy demands this week. Chrysanthemums have enjoyed a big call, and in addition to cleaning up on every flower, many dealers have received fancy prices. Yellow varieties reigned supreme, but are closely pressed by the red. This heavy run on red is due to the shortage of red roses. A steady rise in prices is to be noted in all rose sales of the week. Carnations are somewhat slow to move, but command fair prices. A record for lily of the valley for recent years is this week established when it has brought no less than \$10.00 per 100 on special call. It is abnormally scarce and the majority of the sales were made at \$8.00 per 100. Stevia is plentiful and is called for in goodly quantities. Violets have had an excellent week, both in point of sales and price.

There has been sufficient stock to fill all demands, though at times more good carnations could be used. Chrysanthemums were in fair supply and prices satisfactory. Some excellent Golden Wedding, Maud Dean, Mrs. Jones and Wellesley Pink were had, although a good portion of the receipts have been of the medium quality. Violets have had a good call, also lily of the valley and cattleyas. The heavy supply of roses has now shortened and prices rule better. There are plenty of lilies, narcissus and other stock. This week should show up a large volume of business.

There was a fair demand for flowers during the past week but all of the wholesale houses could have handled more outside orders and would also have welcomed more local trade. The cold wave brought a change for the better in market conditions but still it is considered a dull November, and even the week previous to Thanksgiving business was not up to normal. With the opening of the last week of the month, Thanksgiving orders came pouring in and it required all hands to care for them. The amount of stock on Monday was not in excess of the demand and in many cases more could have been used to advantage. Chrysanthemums are nearing the end. This week will see the big late blooms at their best and comparatively few are now expected to be left over. Pompons which have played such a large part in the market in competition with carnations, show signs also that their reign is nearly over. Roses are not in quite so large supply since the drop in temperature. Carnations, on the contrary, are coming in with the few clear days and the cool weather is making the quality excellent. Pussy willows, ilex or winter berries and all kinds of green play quite a large part in the total sales. There is an oversupply of lilies; lily of the valley is scarce enough to maintain its high price and sweet peas are scarce.



CYPRIPEDIUMS

Well grown, deep, rich green flowers, in quantity. Delivery now or Christmas.

\$2 per doz., \$15 per 100

BOUVARDIA

Splendid quality, (single), pink, light pink and white, \$4 per 100.

Double, pink, \$5 and \$6 per 100

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK PHILADELPHIA
117 W. 28th St. 1608-1620 Ludlow St.
BALTIMORE WASHINGTON
Franklin & St. Paul Sts. 1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Nov. 27	CHICAGO Nov. 27	BUFFALO Nov. 27	PITTSBURG Nov. 20
Roses				
Am. Beauty, Special.....	4.00 to 50.00	35.00 to 40.00	30.00 to 40.00	25.00 to 35.00
" " Fancy and Extra.....	30.00 to 40.00	25.00 to 35.00	15.00 to 25.00	15.00 to 20.00
" " No. 1 and culls.....	15.00 to 25.00	5.00 to 10.00	3.00 to 12.00	8.00 to 12.00
Russell, Hadley.....	8.00 to 15.00	5.00 to 20.00	4.00 to 12.00	4.00 to 12.00
Killarney, Hillingdon, Ward, Extra.....	8.00 to 12.00	6.00 to 10.00	8.00 to 10.00	8.00 to 12.00
" " Ord.....	4.00 to 7.00	3.00 to 5.00	3.00 to 6.00	4.00 to 6.00
Arenburg, Radiance, Taft, Key, Ex.....	.....	.....	8.00 to 10.00	.....
" " Ord.....	.....	.....	3.00 to 8.00	.....
Ophelia, Mock, Sunburst, Euler, Ex.....	8.00 to 12.00	6.00 to 10.00	8.00 to 10.00	8.00 to 19.00
" " Ord.....	4.00 to 7.00	3.00 to 5.00	4.00 to 8.00	.....
Carnations	3.00 to 4.00	2.00 to 4.00	2.50 to 4.00	2.00 to 4.00
Cattleyas.....	65.00 to 75.00	60.00 to 75.00	60.00 to 80.00	.....
Dendrobium formosum.....	.....	.....	.....	.....
Lilies, Longiflorum.....	12.00 to 15.00	.....	10.00 to 12.00	.....
Lilies, Speciosum.....	.....	.....	4.00 to 6.00	.....
Lily of the Valley.....	.....	7.00 to 4.00	5.00 to 7.00	6.00 to 8.00
Snapdragon.....	4.00 to 6.00	4.00 to 6.00	4.00 to 8.00	4.00 to 6.00
Narcissi, Paper White.....	3.00 to 4.00	3.00 to 4.00	2.50 to 3.00	.....
Chrysanthemums.....	10.00 to 35.00	5.00 to 20.00	5.00 to 25.00	6.00 to 30.00
Violets.....	.75 to 1.00	.50 to 1.00	1.00 to 1.25	.75 to 1.00
Marguerites.....	.....	.....	1.00 to 1.50	1.00 to 1.50
Gardenias.....	.....	.....	25.00 to 30.00	.....
Adiantum.....	.....	1.00 to 1.00	1.00 to 1.25	1.00 to 1.25
Smilax.....	15.00 to 20.00	12.00 to 20.00	15.00 to 20.00	15.00 to 20.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00 to 50.00	25.00 to 50.00	35.00 to 50.00	35.00 to 50.00

The supply for **CINCINNATI** Thanksgiving is larger than it ever has been for that day. So confident were the buyers of a large supply that few of them troubled to place orders except for special stock. The balance were willing to take their chances. Roses and carnations are good and in heavy supply. Chrysanthemum offerings are every bit as heavy as they have been since the glut started. Lilies are very plentiful and they have not been meeting with a very strong demand.

NEW YORK This week's story can be told better next week. At present writing, on the verge of the great national feasting holiday there is a very welcome activity in the wholesale flower district. There is no scarcity, however, except in a few specialties and those who wish to have flowers on their Thanksgiving Day

table can have all they want at reasonable prices. Violets have taken a much-needed jump from the gutter prices which have prevailed and there is a probability that this once prosperous little flower may get back to at least a semblance of respectability after its hard experience for which the men who grow it are far from blameless. Cattleyas are hitting the high spots, as they should, and those who are ambitious to be classy in their flower buying can now be accommodated. We wish it were always so. The flower trade should be at all times in position to hold the patronage of the patrician and of the plebeian. We need them all.

The improvement noted in **PHILADELPHIA** our last report continues with a slight upward tendency. Stocks cleaned up pretty well

(Continued on page 745)

New England Florist Supply Co.
SPECIAL — 10 BARREL BALE **Sphagnum Moss, \$3.50**
276 Devonshire Street, BOSTON, MASS.
Fort Hill, 3469
TELEPHONES: Main, 4789 W
Open 6 a. m. to 7 p. m.

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephone: 3206, 3201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street

Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE { 608 } FARRAGUT NEW YORK
609

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.
Tel. { 1983 } Mad Sq. 119 W. 28 St., New York
5993

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.

Wholesale Commission

READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE { 2281 } FARRAGUT 131 West 28th St., NEW YORK CITY
3089

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, NEW YORK

Telephone 2483 Farragut

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS

GARDENIAS, DAISIES, ROSES, CARNATIONS

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones { 1664 } Madison Square
1665

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Nov. 25 1916		First Half of Week beginning Nov. 27 1916	
American Beauty, Special	25.00	to 35.00	25.00	to 40.00
" " Fancy and Extra	15.00	to 20.00	15.00	to 20.00
" " No. 1 and culls.	2.00	to 8.00	3.00	to 8.00
Russell, Hadley	3.00	to 20.00	3.00	to 25.00
Killarney, Hillingdon, Ward, Extra	3.00	to 8.00	3.00	to 8.00
" " Ordinary	1.00	to 2.00	1.00	to 3.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 8.00	3.00	to 8.00
" " Ordinary	1.00	to 3.00	1.00	to 3.00
Ophelia, Mock, Sunburst, Euler, Extra	3.00	to 8.00	3.00	to 10.00
" " Ordinary .....	.75	to 1.00	1.00	to 2.00
Carnations	1.50	to 2.50	2.00	to 3.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for doing
our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK
Phones 2036, 2037, 558 Farragut

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797, 798, 799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality

114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13—3510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

BOXWOOD SPRAYS—QUALITY IS ECONOMY—Especially is this true in the buying of OUR BOXWOOD SPRAYS.

That's why so many florists and storemen insist on ordering our product. They always get the very best. Our Sprays come from OLD SOUTHERN PLANTATIONS, where on the old plantations the growing of great clear, well clothed glossy foliage, of which you can use every spray. We know it. Why not buy the best at First Cost to Consumer Prices—\$7.50 PER 100 LBS.

Also ask for booklet "CHRISTMAS SUPPLIES." It offers suggestions. **PITTSBURGH CUT FLOWER CO., 116-18 Seventh St., Pittsburgh, Pa.**

VIOLET GROWERS

Before making your shipping arrangements for the coming season please correspond with me. I HANDLE VIOLETS ONLY and give my entire time and attention to the interests of my violet growers. Write Now

CLARENCE SLINN

123 W. 28th Street NEW YORK

Beechwood Heights Nurseries

Importers and Growers of

ORCHIDS

Cut Flowers of All the Leading Varieties in their Season.

THOMAS YOUNG, Jr., Proprietor
BOUND BROOK, N. J.

Send Flower Consignments to

L. B. NASON

Wholesale Florist

116 West 28th St., NEW YORK CITY

Shipping Orders Carefully Filled.

Correspondence solicited.

Telephone, Farragut 2245.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing a Strictly Wholesale Business

30 East Randolph Street, CHICAGO

Flower Market Reports

(Continued from page 743)

and prices held firm with prospects of a decided advance for the Thanksgiving trade. American Beauty and some other roses shortened up considerably in supply but the quality was all that could be desired. In Russells especially the quality continues extra good and they remain among the best sellers. Carnations are very fine and the demand is better than it was. The leaders are Matchless, Mrs. C. W. Ward, Enchantress Supreme, Beacon and Victory. The quality of the chrysanthemums arriving is not quite equal to other years. The leaders at present are Golden Chadwick, Bonnafon and Enguehard. Cattleyas reached the twelve dollars a dozen mark on the twenty-seventh. The cypripedium crop is now available and what we have seen are unusually good, being large, richly colored and well finished flowers. Lily of the valley is still on the scarce side; violets going better than usual; sweet peas very good indeed and cutting quite some figure in the market. Bouvardia, calendula and paper white narcissi are also prominent crops in good form at present. Gardenias scarce.

(Continued on page 751)

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

HERMAN WEISS WHOLESALE FLORIST

Can handle shipments of growers' product satisfactorily. Would like to hear from Growers of Daisies, etc., for the New York trade.

106 West 28th St., NEW YORK

Tel. Farragut 3066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Nov. 25 1916		First Half of Week beginning Nov. 27 1916	
Cattleyas.....	30.00	to 75.00	35.00	to 100.00
Dendrobium formosum.....	.....	to 50.00	.....	to 50.00
Lilies.....	4.00	to 5.00	4.00	to 6.00
Lilies, Speciosum.....	2.00	to 6.00	2.00	to 6.00
Lily of the Valley.....	3.00	to 5.00	4.00	to 6.00
Snopdragons.....	1.00	to 2.00	2.00	to 4.00
Narcissi, Paper White.....	2.00	to 3.00	2.00	to 3.00
Chrysanthemums.....	2.00	to 25.00	4.00	to 25.00
Violets.....	.50	to 1.50	.50	to 1.00
Marguerites.....	1.00	to 2.00	1.00	to 2.00
Gardenias.....	12.00	to 25.00	12.00	to 35.00
Adiantum.....	.50	to 1.00	.50	to 1.00
Smilax.....	6.00	to 12.00	6.00	to 12.00
Asparagus Plumosus, & Spreng (100 bunches).....	10.00	to 25.00	10.00	to 25.00

ORCHIDS - - GARDENIAS

HEADQUARTERS for the entire output of the

BEECHWOOD HEIGHTS NURSERIES, of Bound Brook, N. J.

PAUL MECONI—Wholesale Florist—NEW YORK

Telephone Nos. 3864 and 8364 Madison Square

57 WEST 26th STREET

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square
BOSTON, MASS.

Telephone 2618-2617-2616, Main.

William Stuart Allen Co.

Commission Merchants in

CUT FLOWERS

53 West 28th Street, NEW YORK

Telephone—356 Madison Square.

VIOLETS

B. S. SLINN, Jr., 55-57 W. 26th St.
NEW YORK

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK

Telephone, Madison Square 6206

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of
Good Stock Solicited

111 W. 28th St., - NEW YORK

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street

167 & 3058 Farragut

Established 1888

NEW YORK

Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists

110 West 28th St., New York

We Solicit Consignments of New
England Grown Novelties.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display Advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

AUCTION SALES.

Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.

Johnson & Millang, Inc., New York City.
Bulbs and Boxwood at Auction.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

E. D. Kaulback & Son, Malden, Mass.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price-list.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS.

Mrs. J. A. Peterson (New), 21 in. pots, \$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.

For page see List of Advertisers.

Hitchings & Co., New York City.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

August Rolker & Sons, New York City.
For page see List of Advertisers.

BOX TREES—Standards, Pyramids and Bush. Price list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

BOXWOOD SPRAYS

Pittsburgh Cut Flower Co., Pittsburgh, Pa.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
Lilium Harrisii, Narcissus, Hyacinth and Tulip Bulbs.
For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
French and Dutch Bulbs.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
French, Japan, Holland and Cold Storage Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc., New York City.
For page see List of Advertisers.

Pottler, Fiske, Rawson Co., Boston, Mass.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

WESTERBEEK & KLYN, SASSENHEIM, HOLLAND.
Write for prices on all kinds of bulbs to 14 Stone St., New York.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 postpaid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Charles H. Totty, Madison, N. J.
Chrysanthemum Novelties for 1917.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co., White Marsh, Md.
Pompon Chrysanthemums.
For page see List of Advertisers.

CHRYSANTHEMUMS—Continued

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Or Frank Dinda, Farmingdale, N. Y.
Chrysanthemum—Alex Guttman.
For page see List of Advertisers.

Chrysanthemum Stock Plants: Early Frost, Early Snow, Halliday, Razer, Bonaffon, Enguehard, Oconto, 4c. each. Cash. please, FRANK LEITH & SON, Haverhill, Mass.

CINERARIAS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

ORDERS BOOKED ANY TIME
For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Julius Roehrs Co., Rutherford, N. J.
Choice Flowering and Foliage Plants.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

For Plants and Cuttings get our prices before ordering elsewhere. Our guarantee with every order. Write for a copy of our latest Plant Bulletin.

Asparagus	Cyclamen	Primula
Begonias	Daisies	Smilax
Bulbs	Dracaena	Snapdragons
Calceolaria	Ferns	Violets
Calendula	Geraniums	
Cineraria	Hydrangeas	

S. S. PENNOCK-MEEHAN COMPANY,
Philadelphia, 1608-1612 Ludlow St.
Baltimore, Franklin and St. Paul St.
Washington, D. C., 1216 H St., N. W.
New York, 117 W. 28th St.

FERNS

A. M. Davenport, Watertown, Mass.
Small Ferns for Dishes.
For page see List of Advertisers.

R. Vincent, Jr., & Sons Co., White Marsh, Maryland.
Boston Ferns.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

Joseph Heacock Co., Wyncote, Pa.

For List of Advertisers See Page 723

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.

FLORISTS' PLANT STOCK

Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums, S. A. Nutt, 2 in., \$2.00 per hundred, \$18.00 per thousand; rooted cuttings, \$12.00 per thousand. Cash. Also few white cuttings and 2 in. W. E. ALLEN, Leominster, Mass.

GLADIOLI

John Lewis Childs, Flowerfield, L. I., N. Y.
New Catalogue.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GLASS—6x8, 8x10, 10x12, 10x14, \$1.75 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GRAPEVINES

R. & J. Farquhar & Co., Boston, Mass.
Hot House Grapevines.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL
King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset, Boston.
Pecky Cypress.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION—Cont.

Hitchings & Co., New York City.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Boston, Mass.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

HOSE

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co., Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset, Mass.

HYDRANGEAS

Anglin & Walsh Co., Williamsbridge, N. Y.
Otaksa and Avalanche.
For page see List of Advertisers.

INSECTICIDES

Hammond's Paint & Slug Shot Works, Beacon, N. Y.
Hammond's Thrip Juice No. 2.
For page see List of Advertisers.

Aphine Manufacturing Co., Madison, N. J.
Aphine.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

B. G. Pratt Co., New York City.
Scalecide.

IVIES

A. M. Davenport, Watertown, Mass.
English Ivies.
For page see List of Advertisers.

KENTIA SEED

McHutchison & Co., New York City.
For page see List of Advertisers.

LILY BULBS.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Lilium Harrisii Bulbs.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Lilium Giganteum.
For page see List of Advertisers.

Roman J. Irwin, New York City.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hohmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

Loechner & Co., New York City.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.
Hatboro, Pa.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

A. Koloos & Co., Gouda, Holland; also L. Vanheerde, care Maltus & Ware, 14 Stone St., New York City.
Holland Grown Roses, Plants and Shrubs.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
Hot House Grapevines.
For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

ORCHID FLOWERS

Jos. M. Manns, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Beechwood Heights Nurseries,
Bound Brook, N. J.
Importers and Growers of Orchids.
For page see List of Advertisers.

Julius Reckers Co., Rutherford, N. J.
For page see List of Advertisers.

Francisco Delgado Q., Bogota, Colombia.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

PALMS

Joseph Heacock Co., Wyncote, Pa.

PANSIES

William Sim, Cliftondale, Mass.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

PEONIES

F. J. Grootendorst & Sons, New York City.
Herbaceous Chinese Peony Lord Kitchener.
Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.

PIPE AND FITTINGS.

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

PRIMULAS

William Sim, Cliftondale, Mass.
Sim's Hybrid Yellow Polyanthus.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Hardy Roses.
For page see List of Advertisers.

ROSES—Continued

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

**ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.**

A. Kelos & Co., Ganda, Holland; also
L. Vandenberg, Cape May, N. J.
14 Stone St., New York City.
For page see List of Advertisers.

SASH

STANDARD HOTBED SASH, with cross
bar, 85c. each; lots of 25 and over, 80c.
each. Satisfaction guaranteed or money
refunded. Glass 6 x 8, 8 x 10, 10 x 12 or
10 x 14, \$1.75 per box of 50 sq. ft.
C. N. ROBINSON & BRO., Dept. 29, Balti-
more, Md.

SCALECIDE

B. G. Pratt Co., New York City.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Shamrock Seed
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Loechner & Co., New York City.

Amt. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Seeds, Selected Strains.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
For page see List of Advertisers.

SEEDS—Continued

Roman J. Irwin, New York City.
For page see List of Advertisers.

S. D. Woodruff & Sons, New York City and
Orange, Conn.
Garden Seeds.
For page see List of Advertisers.

Pottler, Fisk, Rawson Co., Boston, Mass.
Seeds for the Florist

Clematis paniculata, Stokesia cyanea and
other seeds. BENJ. CONNELL, Florist,
Merchantville, N. J.

SHAMROCK SEED

Arthur T. Boddington, New York City.
For page see List of Advertisers.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SWEET PEA SEED

Amt. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VIOLETS

Clarence Slinn, 123 West 28th St., New York
City.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM F. HEILSCFER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
For page see List of Advertisers.

For List of Advertisers See Page 723

WHOLESALE FLORISTS
 Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
 For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 568-570 Washing-
 ton St.
 For page see List of Advertisers.

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
 For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
 For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 264-266
 Randolph St.
 For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
 For page see List of Advertisers.

James McManus, 105 W. 28th St.
 For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
 For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
 For page see List of Advertisers.

Hentz & Nash, 55 and 57 W. 26th St.
 For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
 For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
 For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
 For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
 28th St.
 For page see List of Advertisers.

Traendly & Schenck, 436 6th Ave., between
 26th and 27th Sts.
 For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
 For page see List of Advertisers.

Paul Meconi, 57 West 28th St.
 For page see List of Advertisers.

Woodrow & Marketos, 37 and 39 W. 28th St.
 For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.
 For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
 For page see List of Advertisers.

John Young & Co., 53 West 28th St.
 For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
 For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
 For page see List of Advertisers.

Guttman & Raynor, Inc., 101 W. 28th St.
 For page see List of Advertisers.

Gunther Bros., 110 West 28th St.
 For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
 For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
 For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
 For page see List of Advertisers.

WHOLESALE FLORISTS
 New York—Continued

J. J. Conn, 115 West 28th St.
 For page see List of Advertisers.

George W. Crawbuck Co., 47 West 28th St.
 For page see List of Advertisers.

William Stuart Allen Co., 53 West 28th St.
 For page see List of Advertisers.

L. B. Nason, 116 West 28th St.
 For page see List of Advertisers.

Clarence Slinn, 123 West 28th St.
 For page see List of Advertisers.

B. S. Slinn, Jr., 55-57 West 26th St.
 For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
 For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St.
 For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-20
 Ludlow St.
 For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
 For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
 For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
 N. W.
 For page see List of Advertisers.

New Offers In This Issue
BAY TREES

Henry A. Dreer, Philadelphia, Pa.
 For page see List of Advertisers.

CYPRIPEDIUMS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
 For page see List of Advertisers.

CYPRIPEDIUMS

The Leo Niessen Co., Philadelphia, Pa.
 For page see List of Advertisers.

**EVERYTHING FOR THE GREEN-
 HOUSE**

S. Jacobs & Sons, Brooklyn, N. Y.
 For page see List of Advertisers.

LEMON OIL INSECTICIDE

Lemon Oil Co., Baltimore, Md.
 For page see List of Advertisers.

**LIST OF SURPLUS BULBS AT RE-
 DUCED PRICES.**

F. R. Pierson, Tarrytown, N. Y.
 For page see List of Advertisers.

**MAINE-GROWN TREES, SHRUBS
 AND HERBACEOUS STOCK.**

Mount Desert Nurseries, Bar Harbor, Me.
 For page see List of Advertisers.

MICHELL'S CHRISTMAS GREENS

Henry F. Michell Co., Philadelphia, Pa.
 For page see List of Advertisers.

PLANTS DE LUXE

W. W. Edgar Co., Waverley, Mass.
 For page see List of Advertisers.

SPHAGNUM MOSS

New England Florist Supply Co., Boston,
 Mass.
 For page see List of Advertisers.

WHOLESALE FLORISTS.

Zech & Mann, 30 East Randolph St.,
 Chicago, Ill.
 For page see List of Advertisers.

WANTS, FOR SALE, ETC.

Advertisements in this column
 one cent a word. Initials count
 as words. Cash with order. All
 correspondence addressed "Care
 HORTICULTURE" should be sent
 to 147 Summer St., Boston.

HELP WANTED

WANTED a young man of neat appear-
 ance for general greenhouse work and help
 at designing. State wages and full particu-
 lars. References required. Address P. M.
 OLM, Bath, Maine.

SITUATIONS WANTED

SITUATION WANTED by single man,
 17 years' experience on private estates.
 No trifles answered. "G. D.," care HOR-
 TICULTURE, Boston.

THE NUT-GROWER

The unique monthly publica-
 tion which furnishes reliable
 and interesting up-to-date in-
 formation regarding the value
 of pecans and other edible nuts
 and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

**Plant Propagation, Greenhouse
 and Nursery Practice**

By M. G. KAINS

We have had many inquiries from
 time to time for a reliable and up-to-
 date book on plant propagation, but
 were always at a loss to find any pub-
 lication that we could recommend. The
 subject has been dealt with in fragmen-
 tary manner only in books that have
 come to our notice. So it is well that
 this new work has been issued, espe-
 cially as it is both comprehensive and
 practical, and it should meet with a
 ready sale among plantmen, nursery-
 men and gardeners. There are nineteen
 chapters covering in detail topics of
 germination and longevity of seeds,
 propagating by buds, layering, cuttings,
 grafting, etc., fruit tree stocks, clones,
 etc., and there are eight pages of con-
 densed cultural instructions in tabu-
 lated form, covering annuals and peren-
 nials from seed, woody plants, ever-
 greens, vines, bulbs and tubers, green-
 house and house plants, ferns, palms,
 water plants, orchids and cacti. The
 illustrations are numerous, comprising
 213 figures and halftone plates. There
 are 322 pages well bound and on heavy
 paper, teeming with helpful information.
 It is a book which no cultivator can
 afford to do without. It is worth many
 times its price. Copies can be supplied
 from the office of HORTICULTURE at
 publisher's price, \$1.50.

Horticulture Publishing Co.

147 SUMMER ST., BOSTON, MASS.

In writing to Advertisers kindly mention Horticulture

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago**Flower Market Reports**

(Continued from page 745)

PITTSBURGH Thanksgiving will have cleaned up chrysanthemums of all kinds. Business conditions are very good, with satisfactory price list and the demand likewise. There is a plentiful supply of practically all home grown stock. Roses and carnations are fair and there are just about enough lilies to clean up nicely each day. Although too early in the season for correct prophecy, the signs point to the probability that violets will be in more favor than for several years past.

The market stiffened **ST. LOUIS** up the past week. Owing to the considerable letup in chrysanthemums, roses and carnations at time of writing are hardening up in demand and price. Violets always enjoy a good call for Thanksgiving. Sweet peas are not very plentiful, no fancy varieties being yet seen. Thanksgiving trade is good, fancy stock in all lines bringing good prices.

**DREER'S**

Florist Specialties.
New Brand. New Style.
Hose "RIVERTON."
Furnished in lengths up
to 500 ft. without seam or
joint.
The HOSE for the FLORIST
3/4 inch, per ft., 15 c.
Reel of 500 ft., " 14 1/2 c.
2 Reels, 1000 ft., " 14 c.
3/4 inch, " 13 c.
Reels, 500 ft., " 12 1/2 c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

STANDARD FLOWER**POTS**If your greenhouses are within 500
miles of the Capitol, write us; we can
save you money.**W. H. ERNEST**

29th & M Sts., Washington, D. C.

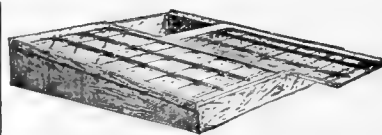
The great variety of weather with which Washington has been "blessed" during the past week or ten days has had considerable effect on the business of the local florists. The temperature has risen and has dropped as much as thirty degrees in a few hours. Chrysanthemums last week passed their height and roses and carnations are slowly coming into their own. The prices on the former have stiffened slightly and there will be the usual increase on all flowers for the Thanksgiving Day trade. There has been plenty of everything. Lilies have gone to waste because of the heavy supply of chrysanthemums. Lily of the valley is not very good. Narcissus has not been selling to any extent, it being too early in the season. Violets, sweet peas and miniature roses are considerably in demand. Cattleyas are scarce and prices have advanced.

**GREENHOUSES BUILDING OR
CONTEMPLATED.****Buckfield, Me.**—Mabel Irish, one house.**Pawtucket, R. I.**—Joseph Ott, Walcott St., additions.**Corfu, N. Y.**—David Scott, sweet pea house 36 by 126.**Philadelphia, Pa.**—Chas. E. McInnes, house 18 by 20.**Holyoke, Mass.**—Wilhelm Weber, Housatonic St., one house.**St. Matthews, Ky.**—Nanz & Neuner Co., two houses in the spring.**Harrisburg, Pa.**—Cyrus Barnhart, 1432 Thompson St., one house.**Southington, Ct.**—Alfred Olson, Queen St., one house completed.**Lock Haven, Pa.**—F. P. Crider, East Water St., two houses, completed.

North Dartmouth, Mass.—William L. Doran has secured a place as instructor of botany and assistant state botanist in the New Hampshire State college at Durham, N. H. Mr. Doran graduated from the Massachusetts Agricultural college in 1915, and since that time has been assistant instructor of botany at that institution.

**NON-KINK WOVEN HOSE**In any length (one piece)
with couplings, 15c. per
foot. Unequalled at the
price.**Hose Valve, 70c.**All brass except the hand
wheel. Has a removable
leather disk which is easily
replaced to keep water
tight. Stuffing box prevents
leaks at stem.**METROPOLITAN MATERIAL CO.**

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

**HOTBED SASH at 80c. each**

Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.**Double Light Sash up to \$4.00.**

We carry a large stock of all sizes.

Write us for estimate

S. JACOBS & SONS

1359-1395 Flushing Avenue BROOKLYN, N. Y.

**Dreer's Peerless
Glazing Points****For Greenhouses**Drive easy and true, because
both bevels are on the same
side. Can't twist and break
the glass in driving. Galvan-
ized and will not rust. No
rights or lefts.
The Peerless Glazing Point
is patented. No others like
it. Order from your dealer
or direct from us.1000, 75c. postpaid.
Samples free.**HENRY A. DREER,**
714 Chestnut Street,
Philadelphia.**FULL
SIZE
No. 2**

The Florists Hail Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address
JOHN G. ESLER, Sec., Saddle River, N. J.

When writing to advertisers kindly
mention **HORTICULTURE**.

King Greenhouses

KEEP SUMMER WITH YOU THE WHOLE YEAR ROUND

On account of their sturdy special construction which permits of great strength without the need of heavy shadow casting supports, these houses are so warm and sunny that they are filled with a riot of bloom and fruit when Jack Frost has stripped the garden of its beauty.

The ventilating and heating systems are the result of years of experience in building for professional growers. Things just have to grow in a King.

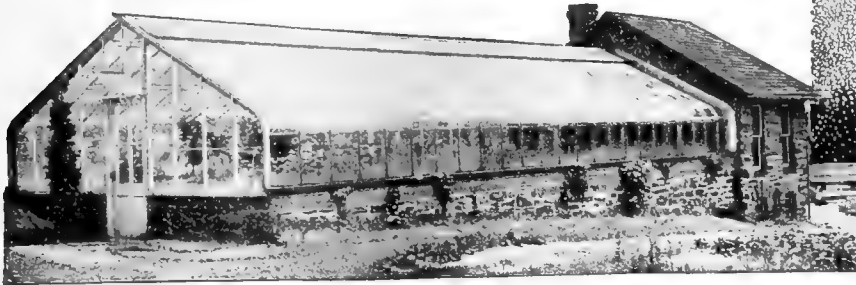
Write today for Bulletin No. 43. See how beautiful and how productive a greenhouse can be erected for the price you want to pay.

KING CONSTRUCTION COMPANY

King's Road, North Tonawanda, N. Y.

ALL THE SUNLIGHT

ALL DAY HOUSES



FOLEY MATERIALS

ARE THE BEST FOR

**Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES**

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, CHICAGO, ILL.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.



Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

Seal-tight liquid putty at \$1.25 per gallon.
METROPOLITAN MATERIAL CO.
1392-1414 Metropolitan Ave., Brooklyn, N. Y.

Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

MASTICA



For Greenhouse
Glazing

USE IT NOW

F. O. PIERCE CO.

12W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

GET OUR CATALOGUE

On Ventilating Apparatus and Greenhouse Fittings
ADVANCE CO., RICHMOND, IND.

EVERYTHING FOR THE GREENHOUSE

Ready for Immediate Delivery
In Any Quantity

Should you desire to purchase the various parts and do your own building, see us.

CYPRESS. Gulf Cypress, thoroughly air dried, in any quantity up to cargo lots.

BOILERS. All kinds, all sizes. Scientifically perfect. Fuel saving.

VENTILATING APPARATUS. Simple but reliable, easy to operate.

FITTINGS. For heating, irrigating, benches, construction.

HOTBED SASH. All sizes. Thousands in stock.

PUTTY and Liquid Putty.

GLASS, all sizes, any quantity.

Our stock comprises anything and everything pertaining to greenhouse construction.

WE CAN SAVE MONEY
FOR YOU.

S. Jacobs & Sons

Greenhouse Builders
1359-1385 Flushing Avenue
BROOKLYN, N. Y.

GLASS

**GREENHOUSE MATERIAL
HOT-BED SASHES**

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

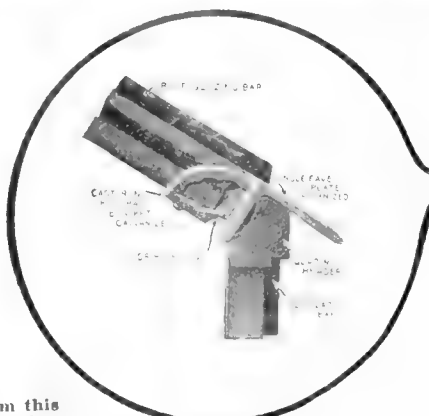
PATENTS

Trademarks
and Copyrights

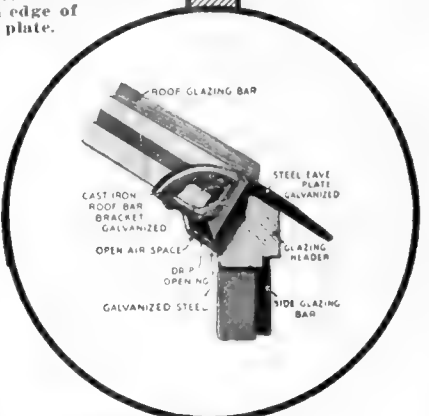
Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.



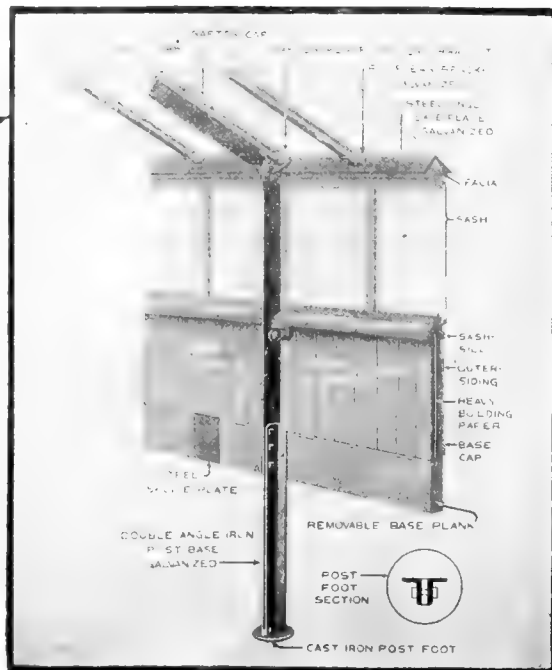
From this side view of the plate, you can see what a leverage a hinge has when the whole weight of the sash comes on the bottom edge of the plate.



No matter whether we use the standard plate like the one above or our Z bar, the sash is hinged direct to the fascia.



No part of our steel side posts is below ground to rust out, out of sight. They are bolted to cast iron bases in concrete footings.



Note the fascia under the eave and that the sash is hinged to it—not the extreme edge of the plate.

Prying Into Some Pry Off Points

LET'S consider just one thing—the eave and the way we don't do. You notice from the side detail cut above, that the sash is hinged to the cypress fascia and not direct to the plate.

Doing it this way brings the prying pressure of the hinges in the centre of the plate, giving no leverage for any prying effect. When hinged direct to the plate, the hinges extend out to the very edge of the widest part of the plate, causing a decided leverage or pry.

This prying, be it ever so little, sooner or later loosens the glass.

We can take you to houses with extra deep and heavy side sash, that have been up for years, and the eave glazing is as snug and tight as ever.

We'll wager you thought we were a bit behind the times in still continuing to use the fascia as a hinging member.

What do you think now?

You know we go anywhere for business. Or to talk business.

Hitchings and Company

NEW YORK
1170 Broadway

BOSTON
49 Federal Street

PHILADELPHIA
40 S. 15th Street

General Offices and Factory, Elizabeth, N. J.

Vol. XXIV
No. 24
DEC. 9
1916

HORTICULTURE



Cypripedium insigne Sanderae

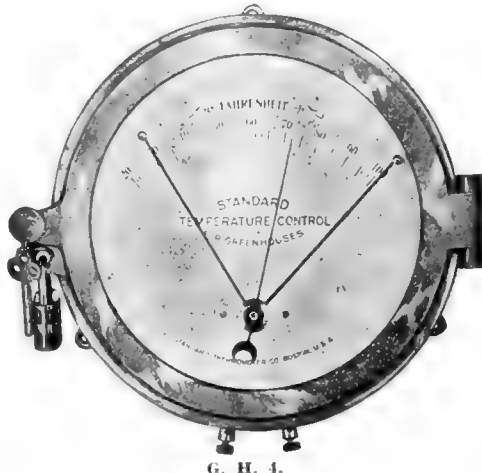
A Gem Among Christmas Cut Flowers

Photo by Julius Roelofs Co. 1916

A SLEEPLESS WATCHMAN

ALARM TEMPERATURE CONTROLS FOR GREENHOUSE USE

Guaranteed to Render Satisfactory Service. Your money will be returned if instrument does not prove satisfactory after a thirty days' trial



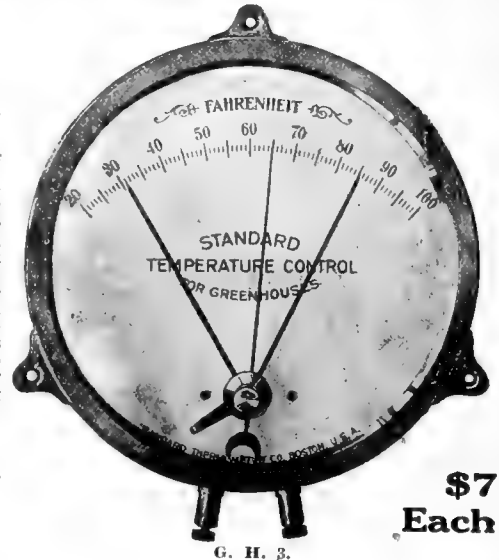
G. H. 4.

\$10 Each

Oxen Hill, Md.,
Nov. 18, 1916.
Standard Thermometer
Co.

Gentlemen: Please find enclosed money order for which please send at once your Standard Greenhouse Thermostat No. G. H. 3. The one I bought last year has proved to be one of the best saving labor and expense device, as before I bought it I was compelled to be up most every night for fear of something going wrong.

Yours truly,
John S. Sharper,
Box 236, Wash., D. C.



G. H. 3.

\$7 Each

Your Best Friend!

Plant Insurance at \$7

The Standard Thermostat is the best business partner and friend you can have. It protects your growing things from ruin by sudden changes in temperatures. It is infallible, inexpensive—more reliable than a night fireman.

The Standard Thermostat will ring a bell whenever your greenhouse temperature rises or falls to the danger point. Place the bell at your bedside or anywhere you please.

This is a word to the wise—a buy word to the wise grower. Sudden temperature ups and downs ruin thousands of plants every year. Protect yours! Install a Standard Thermostat now. It costs only \$10.00. Write today.

Was Your Watchman Awake Last Night?

You are taking chances every night with your valuable crops, unless you have proof that the temperature in your greenhouses is kept even.

A silent, sure check on your watchman is the DE LUXE member of the Standard Thermometer family.

Supply of charts, specially prepared recording ink furnished with each instrument.

No. 200

\$25



But not if you are equipped with the STANDARD THERMOSTAT. The Standard Thermostat protects you from just such dangers. It will ring a bell at your bedside when danger is near.

The Standard Thermostat is indispensable to the up-to-date grower. You know preparedness counts. Get the Standard today. It costs only \$7.00—lasts a lifetime. Write for descriptive matter now, while you are thinking about it.

Tell Tale—That's Just What It Is

The chart shows every variation in temperature, however slight day and night.

With the key in your pocket, you may sleep, for the night man knows this sleepless watchman is watching him!

IS IT WORTH \$25.00 TO YOU TO INSURE YOUR BUSINESS? MOST FLORISTS THINK SO!

STANDARD

THERMO CO.

6 Clifton Street, Boston, Mass.

GERANIUMS

We have the best stock in better condition than we have ever had, and are in a position to take care of your orders in fine shape.

ALPHONSE RICARD, BEAUTE POITEVAINE, JEAN VIAUD, EDMOND BLANC SCARLET BEDDER, \$2.00 per 100 \$20.00 per 1000 for 2 in.; \$3.00 per 100, \$30.00 per 1000 for 3 in.

S. A. NUTT, GENERAL GRANT, MAD. BUCHNER, MAD. RECAMIER, JEAN OBERILL, ABBIE SCHAFER and E. H. TREGO, etc., \$2.00 per 100, \$18.50 per 1000 for 2-in.; \$3.00 per 100, \$18.50 per 1000 for 3-in.

BOSTON FERNS

7-in., \$6.00 per doz.; 8-in. \$1.00 each, \$9.00 per doz. Large Plants, in 11 and 12 in. pots, from \$2.00 to \$5.00 each.

ACALYPHA, \$2.00 per 100, \$20.00 per 1000 for 2 in.; \$3.00 per 100, \$30.00 per 1000 for 3 in.

ASPARAGUS SPRINGERI, \$5.00 per 100 for 3 in.

ALTERNANTHERA, AGERATUM, BEGONIAS, COLEUS, CUPHEA, HARDY ENGLISH IVY, HELIOTROPE, LEMON VERBENAS, LANTANAS, MOONVINES, PARLOR IVY, PETUNIAS, POMPON CHRYSANTHEMUMS, SALVIA BONFIRE and ZURICH, SWAINSONA, white, \$2.00 per 100, \$18.50 per 1000 for 2 in.; \$3.00 per 100, \$30.00 per 1000 for 3 in.

Rooted Cuttings of the following: Coleus, 10 varieties including Golden Bedder and Verschaffeltii; Heliotrope, Chieftain, Ageratum Blue and White, \$0.75 per 100 post paid, \$5.00 per 1000 by express not prepaid.

CASH WITH ORDERS.

R. VINCENT, Jr., & SONS CO., WHITE MARSH, MD.

Order Now

SPRING, 1917, DELIVERY of BOXWOOD, HARDY AZALEAS and RHODODENDRONS, LAURUS Cerasus, Bushes and Pyramids; AUCUBA, small EVERGREENS, CLIMBERS, MAGNOLIA in sorts, etc., etc., all from the

TERRA NOVA NURSERIES, Aalsmeer, Holland

Send for list of cost at foreign nursery, and information on average expenses to lay down, f. o. b. New York. Address the American Representatives:

AUGUST RÖLKER & SONS, 51 BARCLAY STREET, New York
or P. O. BOX 752

LILY BULBS

RALPH M. WARD & CO.
71 MURRAY ST., NEW YORK

When writing to advertisers kindly mention HORTICULTURE.

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

CHAS. SCHWAKE & CO., Inc.

Valley

GERMAN, SWEDISH
AND DUTCH PIPS

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co. 798	Cowee, W. J. 786	Gunther Bros. 789	Kuebler, W. H. 788	Pierce Co., E. O. 797	Smith & Fetters. 777
Albany Cut Flower Ex. 788	Craig, Robt. Co. 787	Guttman & Raynor 787-788	Landreth Seed Co., D. 774	Pierson, A. N. 787	Smith, W. & T. Nursery Co. 773
Allen, J. K. 789	Crawback, Geo. W. Co. 789	Hall Association. 796	Lange, H. F. A. 776	Pierson, F. R. 773	Smyth, Wm. J. 777
Allen, Wm. Stuart 789	Danker, F. A. 776	Hammond Paint & Slug Shot Works 794	Leonard Seed Co. 775	Poehmann Bros. Co. 771-786	Standard Thermo Co. 754
American Bulb Co. 715	Dards 776	Hart, Geo. B. 788	Lutton Co., W. H. 789	Pulverized Manure Co. 794	Stearns Lumber Co., A. T. 798
Anderson, S. A. 777	Davenport, A. M. 758	Henderson, A. & Co. 775	Lord & Burnham Co. 800	Quint, Harry 772	Stump, G. E. M. 776
Anglin & Walsh. 757	Delgado Q. Francisco 759	Hentz & Nash. 788	McHutchison & Co. 759	Randall's Flower Shop 777-781	Thorburn, J. M. & Co. 775
Aphine Mfg. Co. 794	Dinda, Frank. 757	Hess & Swoboda. 777	McManus, Jas. 788	Reed & Keller. 786	Totty, Chas. H. 757
Badgley & Bishop, Inc. 788	Dorner, F. & Sons Co. 757	Hews, A. H. & Co. 795	McConnell, Alex. 776	Riedel & Meyer. 788	Traendly & Schenck 788
Barrows & Son. 757	Dreer, H. A. 759-795-797	Hill, E. G. Co. 786	Marshall, W. E. Co. 775	Reid, Edw. 786	United Cut Flower Co. 789
Byersdorfer, H. Co. 779	Dunlop, John H. 777	Hill, D. Nursery Co. 773	Meconi, Paul. 789	Reiters 777	Valentine, J. A. 781
Bay State Nurseries 772	Dysart, Robert. 776	Hogewoning & Sons 759	Metropolitan Material Co. 795-796	Robinson, H. M. & Co. 789	Vanheerde, L. 773
Beechwood Hgts Nurseries 789	Eastern Chemical Co. 771	Holland Nurseries 773	Michell, H. F. Co. 774	Robinson, H. M. Co. 788	Vincent, R., Jr., & Sons Co. 755
Berger Bros. 785	Edwards Folding Box Co. 786	Holm & Olson. 777	Michigan Cut Flower Ex. 786	Rochrs, J. Co. 756	Walsh, M. H. 769
Bobbink & Atkins 773	Elliott Auction Co. 772	Howard & Smith. 781	Millage, Chas. 788	Roland, Thomas. 756-777	Wants, For Sale. 796
Boddington, A. T. 775	Ernest, W. H. 795	Irwin, R. J. 775	Miller, A. L. 759	Rolker, A. & Sons 755	Ward, R. M. & Co. 755
Bolgiano & Son. 775	Esler, J. G. 796	Jacobs, S. & Sons 797-798	Moninger Co., J. C. 798	Roper Estate, Albert 758	Weber, F. C. 777
Boston Florists' Supply Co. 779	Evans, J. A. Co. 798	Johnson Brokerage Co. 796	Murray, Samuel. 776-782	Rosery, The. 781	Weiss, Herman. 789
Breck, J. & Sons. 775	Eyres 777	Johnston & Millington 772	Nason, I. B. 789	Royal Glass Co. 796	Welch's 786
Breitmeyer's, J. Sons 776-780	F. Eubank, R. & J. A. Co. 760	Jones, McDuffee & Stratton 770	National Nurseryman 773	Schilling, Max. 776	Welch Bros. Co. 786
Budlong, J. A. 786	Foley Mfg. Co. 797	Kasting, W. F. Co. 786	N. E. Florist Supply Co. 787	Schwake, Chas. Co. 755	Welch, Pat'k. 789
Bunyard, A. T. 776	Ford, W. P. 788	Keller, J. B. Sons. 781	Nicotine Mfg. Co. 794	Sharp, Partridge & Co. 798	Wood Bros. 757
Burnett Bros. 775	Ford, M. C. 788	Kelway & Son. 775	Niessen, Leo Co. 786	Sheridan, W. F. 788	Woodrow & Markots 789
Burpee, W. A. & Co. 775	Fottler, Fiske Rawson Co. 775	Kerr, the Florist. 777	Nut Grower. 793	Siebrecht, Geo. C. 788	Woodruff, S. D. & Sons 775
Carter's Tested Seeds, Inc. 774	Fowler Mfg. & Supply Co. 795	Kervan Co. 788	Ouwkerk, P. 773	Siebrecht, W. R. 788	Young, John A. Co. 788
Chicago Flower Growers' Assn. 784	Froment, H. E. 788	King Construction Co. 798	Palmer, W. J. & Son 777	Siggests & Siggests 798	Young, Thomas, Jr. 789
Childs, John Lewis 757	Galvin, Thos. F. 772-782	Knobel Bros. 777	Park Floral Co. 781	Skidelsky, S. S. & Co. 775	Young & Nugent. 776
Clarke's, D. Sons. 776	Gasser Co., J. M. 777	Koloos, A. & Co. 773	Parshelsky Bros. 798	Slinn, B. S., Jr. 789	Zeeb & Mearns 786
Coan, J. J. 789	Graham, Adam & Son 777	Kramer, F. H. 777	Pennock-Meehan Co. 787	Smith, Elmer D. & Co. 757	Zielinski, A. C. 775
Cohen, Louis. 796	Gray, Thos. J. 775	Kroeschell Bros. 797	Penn the Florist 776-781	Smith, Elmer D. & Co. 757	Zinn, J. 778
Cooke, Geo. H. 776	Gude Bros. Co. 776-780				

**FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 790, 791, 792, 793**

HEADQUARTERS FOR
Choice Flowering and Foliage
Plant Stock
FOR THE HOLIDAYS

We have twelve houses filled with the lovely Mrs. Peterson Begonia, the gem of all Begonias. All sizes from \$6.00 per dozen up to \$4.00 each. All the other favorites. Send for List. They are selling fast.

JULIUS ROEHRS CO.
RUTHERFORD, NEW JERSEY

CHOICE
CHRISTMAS PLANTS

Specially Grown for High Class Trade

SEND FOR LIST

THOMAS ROLAND
NAHANT, MASS.

1917

CHRYSANTHEMUM NOVELTIES

1917

Our Novelties for 1917 are the best we have ever had. The finest of the year in the large flowering type will be —

LOUISA POCKETT

Mr. Pockett, who raised both varieties says that Louisa Pockett will easily displace Wm. Turner as the best white in cultivation. From our knowledge of it I can endorse this statement.

In 1906 I distributed Beatrice May which remained our standard white for years. Five years later in 1911 I distributed Wm. Turner and now after a lapse of five years, in 1917 I will distribute this sensational white that surpasses all others—**LOUISA POCKETT**.

This is a seedling from Turner but a larger flower and heavier grower.

Other splendid Novelties for 1917 will be:

NAG-IR-ROC; W. H. WAITE; PRES. JOHN EVERITT; OCTOBER KING and BOL D'OR. January delivery, 2½ in. pots, \$16.00 Dozen; \$100.00 per 100.

We will also distribute Schaffer's
PHENOMENAL JAPANESE ANEMONES

And our new SINGLES for 1917, are as usual
THE FINEST IN THE WORLD

1917

CHARLES H. TOTTY**MADISON, N. J.**

1917

CARNATIONS**Field Grown**

ENCHANTRESS SUPREME, EUREKA WHITE WONDER, PINK DELIGHT.

\$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL, MATCHLESS.

\$7.00 per 100; \$55.00 per 1000.

LADY NORTHCLIFF, PINK WINSOR, WHITE WINSOR.

\$6.00 per 100; \$50.00 per 1000.

WOOD BROS., FISHKILL, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

GLADIOLI

New Catalogue Ready

JOHN LEWIS CHILDS, Inc.
FLOWERFIELD, L. I., N. Y.

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.
WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.
ROOSEVELTS—\$5 per 100, \$40 per 1000.
BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

CHRYSANTHEMUMS**NEW FOR 1917**

**SMITH'S IMPERIAL
OCTOBER HERALD
YONDOTA**

**HELEN LEE
DECEMBER QUEEN**

**NEW POMPON
LITTLE GEM**

**ANEMONE
THE CREST**

Also all the best varieties now in commerce.

Ask for preliminary list.

ELMER D. SMITH & CO., ADRIAN, MICH.

ROBERT CRAIG CO.**ROSES, PALMS,**

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

HYDRANGEA**OTAKSA & AVALANCHE**

Field grown plants, ready for 6-inch pots; \$14.00 per 100.

ANGLIN & WALSH CO.
W. Liamsbri'ge, N. Y.

**CHRYSANTHEMUM
ALEX. GUTTMAN**

The best Early Lavender-Pink in the Market. Blooms have been selling for \$6.00 per dozen since middle of September. Stock Plants, 75c. each, \$7.50 per doz.

GUTTMAN & RAYNOR, INC.
Wholesale Florists

101 West 28th St., New York, or FRANK DINDA, Farmingdale, N. Y.

A. N. Pierson, Inc.
CROMWELL, CONN.

Bedding Plants and Roses

CHRISTMAS PLANTS

AZALEAS, PRIMROSES, CYCLAMEN,

ALL SIZES

**Especially fine BEGONIAS Cinninati, Peterson,
Melior and Mrs. Heal. All sizes**

FERN DISHES AND COMBINATION PANS

Also PRIMULA Malacoides Rosea, the new dwarf sort

A. M. DAVENPORT, WATERTOWN,
MASS.

New Carnation ALBERT ROPER

This Splendid Production of the Late Albert Roper, previously known as No. 360, will be disseminated the coming winter. Color cerise; flower medium size; a very free rooter; long stiff stem; healthy; good bloomer and free from splitting; "A real bread-and-butter Carnation," says William Nicholson.

Winner of the Silver Medal at the Boston Spring Show, 1916

**Rooted Cuttings \$12.00 per 100; \$100.00 per 1000
250 at 1000 rate**

Orders taken now will be filled in rotation

ALBERT ROPER ESTATE, TEWKSBURY
MASS.

MARK ROPER, Administrator

BAY TREES

A new importation has been received from Belgium in prime condition, as nice a lot of trees as we have ever imported. Prices are slightly advanced over previous seasons, due to higher importation charges. All of these are supplied in the Belgian tubs in which they were imported.

Standard or Tree Shaped Bay Trees

Size of Tubs	Height of Stem	Diameter of Crown	Price Each
8 inch	18 inches	16 inches	\$3.50
12 "	38 to 44 "	18 to 20 "	5.00
12 "	38 to 44 "	20 to 22 "	6.00
12 "	40 to 46 "	20 to 22 "	6.00
12 "	40 to 46 "	24 to 26 "	7.50
15 "	26 to 32 "	24 to 30 "	7.50
18 "	41 to 52 "	30 "	9.00
18 "	46 to 52 "	32 "	12.00
20 "	40 to 48 "	32 to 36 "	18.00

Pyramid Shaped Bay Trees

Size of Tubs	Diameter at Base	Height	Price Each
10 inch	18 inches	3½ to 4½ feet	\$3.50
14 "	18 to 20 "	5 to 5½ "	6.00
14 "	22 to 24 "	5½ to 6 "	7.50
18 "	21 to 26 "	6 to 6½ "	12.00
18 "	28 to 32 "	7½ to 8 "	15.00

HENRY A. DREER

714-716 Chestnut Street - - - - PHILADELPHIA, PA.

THE PRICES QUOTED ABOVE ARE FOR THE TRADE ONLY



JAP LILY BULBS

At Import Prices

GIGANTEUM,	7-9, 8-10, 9-10, 10-11.
MULTIFLORUM,	7-9, 8-10.
AURATUM,	7-9, 9-11.
ALBUM,	9-11.
RUBRUM,	7-9, 8-10, 9-11.
MELPOMENE,	9-11.

Giganteum, 7-9, 8-10 and 9-10 also offered F. O. B. Chicago and London, Ont. Write for prices and details, stating quantity desired.

McHutchison & Co.

THE IMPORT HOUSE

95 Chambers St., New York

The largest collection of up-to-date Xmas stock around New York City can be seen at

A. L. MILLER'S

JAMAICA, N. Y.

ORCHIDS

Francisco Delgado Q.
Orchid Collector

Solicits orders for shipments of Orchids.
Prices quoted upon application.

BOGOTA (Chapinero) COLOMBIA

AN EXCEPTIONAL OPPORTUNITY

TO GET A FINE SUPPLY OF

BULBS FOR EASTER BLOOMING

AT LESS THAN HALF THE ORIGINAL PRICE

HYACINTH BULBS, 2nd size, in White,	Per 1000
Blue, Pink and Red - - -	\$16.00
HYACINTH BULBS, 3rd size, for pots	12.00
MINIATURE HYACINTH BULBS -	8.00
SPANISH IRIS, in five named varieties	3.00

Prices are F. O. B. New York. These bulbs are in New York ready for immediate shipment.

HOGEWONING & SONS

RYNSBURG, HOLLAND

32 Broadway, NEW YORK

SOW EARLY

MIGNONETTE

Farquhar's Universal

1-4 oz. \$3.75; 1-8 oz. \$2.00; 1-16 oz. \$1.00

SWEET PEAS

	Lb.	1/4 Lb.	Oz.
White Spencer	\$3.00	\$1.00	\$.30
Countess of Spencer	2.75	.75	.20
Maud Holmes	2.75	.75	.25
Asta Ohn Spencer	3.00	.85	.25
Clara Curtis	2.50	.75	.20
Hercules		1.25	.40

VERBENAS

Farquhar's Giant Blue

Farquhar's Giant White

Farquhar's Giant Scarlet

Farquhar's Giant Pink

Farquhar's Mammoth Hybrid Mixed

All the above 1-4 oz. \$0.40; 1-8 oz. \$0.25

VINCAS

Bright Rose

Pure White

White with Rose Eye

All the above, oz. \$1.00; 1-4 oz. \$0.30

Wholesale Catalogue Mailed on Application

R. & J. FARQUHAR & CO.

BOSTON, MASS.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toll, we ought to blame the culture, not the soil."—Pope.

Care of Christmas Plants

AZALEAS—There are few more popular Christmas plants than azaleas, the bright colored sorts, such as Hexe and Mme. Petrick especially. Remove plants nicely in flower into a cooler house, but do not let the change be so sudden as to cause wilting.

CAMELLIAS—Camellia plants carrying two or three flowers are quite salable at the holidays. If plants have hard, green buds, which have not yet started to swell, they cannot be flowered on time. By all means grow camellias fairly cool, not exceeding 50 degrees at night at this season.

POINSETTIAS—If the foliage is still dark green on the plants you are fortunate. Such stocks, even if the bracts are not large, will sell well. From now on pay special attention to watering and do not subject the plants to any cold draughts or low temperature.

LILIES—The crop of Christmas lilies must now have the buds starting to open. Then in a temperature of sixty to sixty-five degrees at night, they will be all right.

BERRIED PLANTS—Christmas is the time par excellence for disposing of berried plants. In fact, the sale for them at any other time is quite limited. *Ardisia crenulata* is deservedly popular. *Solanum*, Christmas peppers and *Otaheite* oranges are all popular fruiting plants for the holiday trade.

BEGONIAS—*Lorraine*, *Glory of Cincinnati* and *Mrs. Peterson* begonias are great Christmas plants. Do not keep them too warm from now on and they will then give your customers more lasting pleasure.

ERICAS—*Ericas* such as *melanthera* are quite easily flowered for Christmas and meet with a good sale. This is another plant which will not tolerate forcing and must always be grown cool but which is quite accommodating in that it will remain fresh a long time. Any temperature just above actual frost will suit it.

LILY OF THE VALLEY—Pots of lily of the valley five and six inches in diameter, with fifteen to twenty single pips in each, will make salable plants. As they are getting fully opened, give them slightly cooler quarters, but be careful on this point as a drop of 20 degrees will cause the plants to wilt.

DECORATIVE FOLIAGE PLANTS—Do not make the mistake of mixing these rich foliage plants in the same pans or hampers with poinsettias, as they hardly agree. The highly colored *crotons* and *dracaenas* make excellent plants for warm rooms, as does *Pandanus Veitchii*. All of these stand the drying heat with little injury. It is well also to remember that none of these plants should long be exposed to a temperature lower than 50 degrees, or they will soon show it in loss of foliage. They should, therefore, be extra well protected when sent out to customers during severe weather.

PRIMULAS AND CYCLAMENS—*Primulas* and *cyclamens* are plants which can be sold at a moderate price and are really satisfactory to the purchasers, as they bloom

so long under quite adverse conditions. The pink and red are the ones which sell now, and plants which have had a light, sunny bench and a temperature of 50 to 55 degrees at night since early September are now in good condition. Use care in watering to do it around the sides of the pots. If poured in the center of the plant the probabilities are that the buds and foliage will decay.

FERN DISHES—There is invariably considerable call for fern dishes at Christmas and it is well to have a good number made up in advance. Some prefer them with a small *Coccoloba Weddelliana* as a centerpiece.

SPECIMEN NEPHROLEPIS—The old Boston variety is still most in evidence and sells better than any other sort, but there is a wide assortment of other forms. Watering is of vital importance or there will be a great loss while plants are in the store. Few store florists know much about it and when large numbers of valuable plants are on hand, get a competent greenhouse man to water them.

HARDY SHRUBS—English hollies in tubs take the lead among the berried subjects. Others are *Skimmia japonica* and *Aucuba japonica*. These being able to withstand quite hard freezing, they are excellent to stand outside the store, and in addition some of the *cupressus*, *retinosporas*, *thuyas*, *abies* and other coniferæ can be used to good advantage. Neat tubs, painted green are better than pots for all these shrubs.

CARE IN HANDLING—Christmas is the holiday when we may naturally look for a low temperature. An ample stock of newspapers, tissue and oil paper and cotton-wool should be laid in. Regular wrapping paper should be used as an outside cover at least for small plants, for the sake of neatness. Such special flowers as gardenias and orchids should have their flowers wrapped in tissue or oil paper before heavier material encloses them. If severe cold, a sheet of cotton-wool should also be wrapped around each. Do not cover the plant heavily and leave the pot exposed. A bad chilling at the roots may easily prove disastrous. Wrap heavily; it is better to be on the safe side and overdo it, rather than have customers telephone complaints of chilled or frozen plants.

Christmas Greens

Practically everyone in the retail business handles Christmas greens, and with most of us it pays as well as anything we do around the holidays. A few words on this will not go amiss now. A deep cold-frame can't be beaten for storing greens. Spread some heavy paper or burlap over the bottom to keep the stock clean; the made-up wreaths can be piled up here, also the loose holly and most of the other stock if the weather isn't too severe. Sprinkle lightly, place heavy paper over the top of all, followed by the sashes and such protection on the outside as well be necessary to keep out frost. We shall want all such kinds as holly, fresh cut boxwood, laurel wreathing, *lycopodium*, moss, mistletoe, etc.

Make use of the best stock you can buy, and make up well. If it ever pays to offer high quality stock, around Christmas is the time.

Cinerarias

Give a cool and airy house, where the temperature can be kept from 40 to 45 degrees at night, with a rise of 10 degrees with sun heat. In fact, the fullest light and a low temperature and constant fumigation are the three essentials to make stout, healthy cinerarias. These plants will now be making very rapid growth. Particular care should be taken to ventilate well during warm and dull weather so that they will not grow soft. Do not let them get pot-bound before giving them a shift with a compost of two-thirds of chopped sods and one-third of well-decayed cow manure. The green aphid is likely to be troublesome from this out so fumigate once a week. Seeds sown in August for Easter plants will now be in two-inch pots and will soon want a four-inch in which they will pass the winter, and in February will be shifted into their flowering pots, five-inch or six-inch.

Fern Spores

To bring these up to good sized seedlings requires watchfulness. All seed pans should be well cleaned, so as not to leave any germs of moss or fungus which are sure to ruin the young ferns, when they begin to show. One point to be remembered is to have everything very

clean. Use plenty of crocks on the bottom of the pans to insure good drainage. Some moss can be spread over the crocks to hold the compost from choking up the drainage. These pans can be filled to within an inch of the top. A good compost will be equal parts of loam and leaf-mold and some sand. Over this put about half an inch of finely sifted compost, press firmly and sow the spores; press the spores in and place pans in a temperature of 65 degrees and cover with glass. To keep up a steady supply of small ferns for the filling of fern pans one should sow spores about every five or six weeks. Newly sown spores should be kept in a temperature of not less than 65 degrees at all times and they should have this heat for sometime after they appear.

Reminders

Give plants that are well pot-bound a top-dressing of dried blood. This is an excellent fertilizer for this purpose.

Place a few stock plants of bouvardia in a warm moist house so they will produce early cuttings. About 60 degrees will suit them.

Maintain a restful temperature in the houses where palms and ferns are kept, unless for any special purpose some are being forced.

Daffodils that were planted early should now be sufficiently established to stand moderate forcing. Fifty-five degrees will be all right.

Next Week: Callas; Easter Lilies; Mignonette; Orchids; Start Propagating; Reminders.

Carnations

With the high cost of all that enters into Carnation growing, it becomes necessary to get the best results from each house. Carnations are grown at a profit so small, that small leaks are dangerous, and as higher prices are not easily to be obtained, better cultural methods are a necessity. Other crops have a larger margin of profit, but a slight falling off of quantity or quality on the part of a carnation range means net loss while no great excess of gains, due to a combination of favoring circumstances, can be looked for. The carnation specialists know this but it is the man who grows a mixed crop—and the writer is one—who needs to know that his houses are actually giving best results. And it is none too soon to think out next season's plans. Can we trust the crop to the weather conditions out of doors from May to August? Dozens of New England growers are suffering from bad outside conditions this season, and the trouble will not end with this season's cut, as weakened plants produce weak cuttings and "yellows" are apt to beget "yellows."

Some strains of Carnations can be safely grown inside as the Winsors—and a more profitable breed of Carnations has never been produced for the grower who understands it and can use short stems in the autumn. White Winsor will easily produce thirty-five blooms to the square foot, and for keeping qualities and fragrance no sort grown today surpasses it.

Matchless does well as an inside grown sort. Beacon Delight needs the open air and a lot of it for best results. The Enchantress family can be grown either way

and give a good yield, but the blooms are apt to be soft at times and the grower needs to study his market carefully if he is to use this sort. It's the condition of the blooms when they reach the home that counts and reacts on the growers.

Your retail florist will call for flesh pink in autumn, high colors at the holidays, white at Mother's Day and deeper pink in the late spring. About 35 per cent. white, 35 per cent. flesh pink and 30 per cent. all others meets the call pretty well. Inside grown stock will give good returns early in the season before chrysanthemums are much in the market. Then comes a lull perhaps and the matter of saving cuttings comes in. And here is where a year's results may be made satisfactory or allowed to show a loss. The grower and retailer can study this question of long stems and lost cuttings, or future blooms, to their mutual advantage. It is possible to gain \$1 per hundred by an additional length of stem and in doing so lose three or four dollars worth of side shoots. Save the cuttings. If you can use them in the sand take the stem. Matchless, for instance is needed in large quantities at Mother's Day and that spring crop can be made or marred, early in the season. We are just learning to grow Matchless, and it is a wonder. Benora, too.

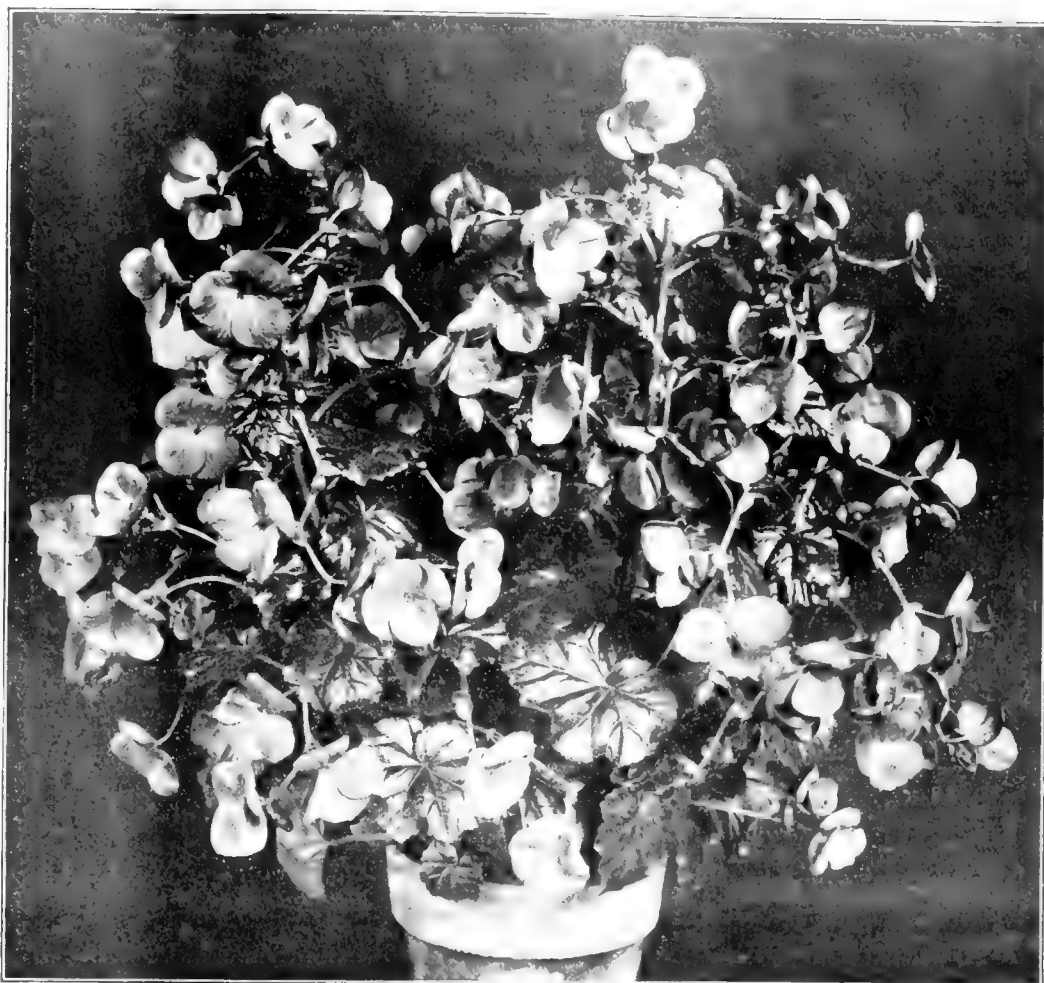
The soil pile for next season's carnation beds, and the field for planting out—it's none too early, it's too late for some of this work and if it has not been attended to best results will be difficult—but that is too long a story at this writing.

Charles S. Strunk.

Biddeford, Me.

Winter Flowering Begonias

By the introduction into Great Britain of *Begonia Socotrana*, from the Island of Socotra in 1880 by Professor Bailey Balfour of Edinburgh, Scotland, and also by the results obtained by John Heal for the firm of James Veitch & Sons, in crossing *B. Socotrana* with tuberous varieties, we now have a class of begonias that are well worth growing for winter decoration in the conservatory. The first variety raised by John Heal was *Autumn Rose* from a cross between *B. Socotrana* and the American variety *insignis* which flowered in 1882 but not being distributed was eventually lost. The next attempt by Mr. Heal proved more successful in the production of a variety named after himself, viz., *John Heal*, from a cross between *B. Socotrana* (female) and *B. Viscomtess Douerade*. According to what is written of the variety *John Heal*, only one seed germinated, and the whole stock of it is the produce of a single plant distributed in 1885. Next in succession came *B. Adonis* in 1887, followed by *B. Agatha* in 1903. *B. Agatha* was the produce of a cross between *B. Socotrana* and a garden variety, *B. Moonlight*. *B. Moonlight* was raised about 50 years ago by the late Colonel Tower Clarke of Daventry, Eng., who was also the raiser of the well-known *B. Weltonensis* from a cross between *B. Pearcei* and *B. Dregei* (one of the parents of *B. Gloire de Lorraine*). *Begonia de Lorraine* was introduced in 1891 by Lemoine of Nancy, France, and grew rapidly into favor on both sides of the Atlantic, it being the produce of a cross between *B. Socotrana* and *B. Dregei*. Other varieties of *Gloire de Lorraine* are *Turnford Hall*, a white sport introduced by T. Rochford & Sons, Eng., *Amabilis*, *Glory of Cincinnati*, *Rochfordii*, *Lonsdale Light Pink*, and *Mrs. J. H. Peterson*. The latter is a beautiful variety with dark bronze green foliage and reddish pink flowers. *B. Melior* is another beautiful variety from a cross between *B. Lonsdale Light Pink* and *B. Socotrana* which I believe was raised by J. H. Peterson of Cincinnati. The flowers of this latter variety are large and of a delicate rose color. Messrs. Clibran of Altrincham, England, have also lately introduced some beautiful varieties of the *John Heal* type—*Altrincham Pink*, *Splendour*, *Pink Perfection*, *Scarlet Beauty* and various others. *John Heal*'s recent introductions are



BEGONIA MRS. HEAL.

Success, *Mrs. Heal*, *Elatior*, *Julius*, *Sylva*, *Winter Cheer*, *Optima*, *Eperius*, *Syros*, *Her Majesty* and a few others. Like the *B. Gloire de Lorraine* family, the *John Heal* type can be readily propagated from the leaf, taken from the plant with a heel attached and inserted in 2-inch pots filled with sharp sand, and placed in a propagating frame with a temperature ranging from 65 to 70 degrees at night, care being taken not to let water condense on the leaves. Propagated also by taking off side growths and young shoots from the tubers in March after they have attained a height of 2 to 3 inches and inserted in 2-inch pots filled with sharp sand, they will root in from ten to fourteen days.

As soon as the cuttings are rooted, they should be taken out of the sand and potted up into 2½-inch pots, in a nice free open compost consisting of loam, leaf mold and a little sand to keep it open. Potting should be medium firm, and great care in watering is required if one wishes to succeed in growing the *John Heal* type of *Begonia*, also care in ventilation, shading from strong sunshine, and fumigating regularly to keep down the mite, and a regular temperature of 60 degrees at night, weather permitting, throughout the growing season. They are also subject to mildew in some locations, but this can be overcome by spraying with Fungine, applied with a very fine sprayer, and a careful operator of same. When they are well rooted in the 2½-inch pots, they will require a shift into 4-inch pots, using a compost as recommended before, but in a rougher state. For the

final potting a compost consisting of loam three parts, dry cow manure one part, leaf mold one-third part, sand and charcoal finely broken up will suit them.

When coming into flower, they will do better in a temperature of from 55 to 60 degrees at night, and will last longer in flower than if grown in a warmer temperature. After flowering the plants should be cut back to within 6 or 8 inches of the base of the stems, and placed in a house with a temperature of 50 degrees, only giving them sufficient water to keep them in a green condition until spring.

John S. Drig

Southboro, Mass.

Iberis

Reiterating the merits of *Iberis umbellata*, the annual candytuft, on the pages of HORTICULTURE would be equal to an indirect attempt to throw doubt on the intelligence of its readers. Known for ages as standard material for edging, we simply look at the various colors of annual candytufts as indispensable, especially for inexpensive floral garden arrays. To direct the attention to the hardy perennial class of iberis, however, seems to me by no means untimely. The fact of their rapid gain in popularity among hardy flower garden owners is plainly evident. During April and May when covered with snow white or lavender-shaded flowers they attract attention at once. After having added conspicuously in the vernal floral effect the dark evergreen foliage remains and the border-edges or plantations of hardy candytufts appear clean and presentable during the remainder of the year. The scope of usefulness of perennial iberis is, however, not limited to edging purposes and border-plantings. They class among the best material adapted for dry walls and rockgardens: indeed here we could afford omitting them at all. The natural consequence is an ever increasing demand for hardy candytufts.

In regard to varieties I am inclined to put the well known *Iberis sempervirens* in the lead as the hardiest pure white one. Perfection, Snowflake and superba as improved *sempervirens* are distinguishable by more or less larger flowers. Little Gem, identical with Weisser Zwerg, a very handsome compact and dwarfy variety, is the ideal thing for rockery use. The subject of our illustration, *Iberis correaefolia* when true to name

opens pure white, turning to light purple during the last stages of blooming. Forming shapely bushes of from one to two feet in height, the branches woody, *Iberis gibraltarica* according to my observation is best adapted for the hardy border. Adorned with flowers of light lavender pink nearly throughout the whole summer, it is the first to suffer in winter and requires careful protection.



IBERIS CORREAEOFOLIA.

Hardy candytufts are best raised from seed sown in spring. Seedlings flower the second year. For perfect development, plantations should have an open sunny exposure. Under leaf-cover I have, as a rule, had very few plants winterkilled, but I take care not to have the green tops exposed to the sun during February and March.

Richard Rothe

Glenside, Pa.

Cypridedium insigne Sandrae

Cypridedium insigne has long been a favorite Christmas flower. It "makes up" effectively in combination with anything and everything in cut flower work or plant baskets and will practically outlive all the other flowers used with it. It is gratifying that the chaste and lovely pale yellow variety which is depicted on the cover page of this issue of HORTICULTURE has now become plentiful enough to be obtainable in quantity as a cut flower for commercial florists' use. It sells at wholesale for six dollars a dozen blooms when the ordinary *insigne* brings about a dollar and a half per dozen, and it is worth the difference to any florist catering to an exclusive trade.

**NEXT WEEK
YOU HAVE
ANOTHER
CHANCE**

To turn over your surplus stock. An advertisement in December 16th Issue of Horticulture will catch the late buyers for Christmas Stock.

**YOU HAVE
ANOTHER
CHANCE
NEXT WEEK**

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Christmas Roses

All roses that will be in for Christmas will be showing buds now, and care should be given so that they will not become deformed or the foliage mildewed. Keep them well disbudded and sprayed. It will also be advisable to go over the plants and tie them well so that all the buds will have nice straight stems. The plants can still be fed right up to the time that the buds begin to show color, after which if there is a heavy crop coming on the feed should be dropped for a while as the plants will not need it to finish the buds; in fact it might even prove harmful to the crop.

Soot

Soot is very nice to use at this time of the year, and applied properly will be a great benefit to the plants. It helps put the color into the buds, in addition to being a good fertilizer. The imported soot is best but places burning soft coal will have quite a little soot of their own if it is taken care of. When applying the soot to the benches use only enough to blacken the surface of the soil nicely and apply it as evenly as possible. If lime had been applied only a short time before do not apply the soot. Neither should it be used with bone as the lime itself and the lime in the bone would act on the soot and free too much of the ammonia which it contains. It is best to have the plants fairly wet when it is applied and it can be watered in as soon as it is on the benches. It can also be mixed into the manure water and applied with this and will be sure to be evenly distributed if it is well mixed in the tank.

Be Ready for Snow

The weather has been too good to last and we can look for a sudden change at any time. We hope it will not come but no one can tell and it is best to be ready in case of a blizzard with deep snow. Get some soil in for potting and get all the pots put away so that the severe freezing that may come will not break them to pieces. All broken glass should be repaired at once and if there are any old houses that may have to be braced it should be done at once as putting it off may prove costly. With the high price of coal it will pay to go over the houses good and see where leaks can be stopped up. Tar paper can be put on the backs of some of the three-quarter span houses. This can be made to look fairly neat if care is taken to nail all laths which are to hold it. It will last for a few years, depending on the quality of the paper used and on the condition of the wall under it. But it will save coal and that is the main item.

Care of Grafted Plants

Grafted plants have one fault and that is that the stock is bound to send up shoots which, if allowed to grow, will take all the nourishment from the graft and the result will be that the graft will die or do so poorly that the plant will not pay its keep. Go over the plants every now and then and get all these breaks before they have a chance to get very high. A good time to do this is while watering, as the grower will then have time to look at each plant thoroughly, and if there is any growth from the stock tear it off. This is better than cutting, for if it were cut it would surely grow again. If pulled away, it will be taken off right where it started and the chances are that it will not start again. Care should be taken not to disturb the plant while doing this. If it is done while watering, the water applied right afterward will settle the soil back to the roots and there will be no harm done.

Work in the Propagator

This house should be cleaned out now if the work has not been done as yet for it will soon be needed. In fact on many of the large places early cuttings are already in the sand, these to be used for summer roses. If sand is not to be had on the place have some hauled up so that it will be on hand when needed. It can be piled up somewhere where it will be handy to get at, and if a little lime is scattered over the ground first it will not get any foreign matter into it from the soil underneath. It can also be kept clean by not taking it off the ground too thoroughly when it is being picked up to be put into the benches. When cleaning in the propagating house, be sure to get under the benches and into all nooks and corners for often one neglected corner will cause enough trouble to spoil all the other cleaning work. The pipes under the benches should be looked over so that there will not be any leaks to repair when the sand is all in and the fire started. Where time will permit it would be nice to scrub the house down with whale oil soap and Aphine, taking care to pour a little of the mixture into all crevices where insects are making their home. This will kill or drive them out and if they do not find congenial quarters elsewhere they will die or move out. Scatter a little lime under the benches to help sweeten the soil there. Also will help keep insects out for these do not like to stay where it is clean. They must have dirt and decaying matter in one form or another. Make a good job of the cleaning this year. It will pay.

BUY SOMETHING

from the firms whose reasonable advertisements appear in this paper. They take the initiative and it is now "up to you" to make the next move in the process which is to make livelier business and better times for us all.

BUY NOW

HORTICULTURE

VOL. XXIV

DECEMBER 9, 1916

NO. 24

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.**147 Summer Street, Boston, Mass.**

Telephone, Beach 292.

WM. J. STEWART, Editor and Manager**SUBSCRIPTION RATES:**

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.
 Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Cypripedium insigne Sanderæ.	
NOTES ON CULTURE OF FLORISTS' STOCK—Care of Christmas Plants—Christmas Greens—Cinerarias—Fern Stores—Reminders—John J. M. Farrell.....	761-762
CARNATIONS—Charles S. Strout.....	762
WINTER FLOWERING BEGONIAS—John S. Dong—Illustrated.....	763
IBERIS—Richard Rothe—Illustrated.....	764
CYPRIPEDIUM INSIGNE SANDERÆ.....	764
ROSE GROWING UNDER GLASS—Christmas Roses—Soot—Be Ready for Snow—Care of Grafted Plants—Work in the Propagator—Arthur C. Ruzicka.....	765
THE LATE BAYARD THAYER—C. S. Sargent.....	767
NATIONAL ASSOCIATION OF GARDENERS.....	768
OBITUARY—Isaac Pollard—John Baldinger—C. Thompson Adams—F. N. Strail—Mrs. Andrew McAdams.....	770
CLUBS AND SOCIETIES—Gardeners' and Florists' Club of Boston—American Gladiolus Society—Meetings next week.....	771
SEED TRADE—One Week's Imports.....	774
OF INTEREST TO RETAIL FLORISTS:	
New Flower Stores.....	776
Flowers by Telegraph.....	777
Associated Retail Florists of New York.....	781
NEWS ITEMS FROM EVERYWHERE:	
Chicago, Boston, Washington.....	778-779
New York, Cincinnati, St. Louis.....	781
Pittsburgh.....	784
FLOWER MARKET REPORTS:	
Boston, Chicago.....	785
New York, Philadelphia.....	787
Pittsburgh, St. Louis, Washington.....	789
MISCELLANEOUS:	
Benj. Hammond for Mayor.....	767
It Couldn't Be Done, poetry.....	767
An Appreciation.....	767
Rose Tournament at Pasadena, Cal.....	769
Chrysanthemums in Oklahoma—Illustrated.....	772
New Corporation—Business Troubles.....	772
Massachusetts Agricultural College.....	774
Azalea Shipments Satisfactory.....	774
Visitors' Register.....	774
A New Industry in Boston.....	776
Some Boston Plant Establishments.....	782
A Corner in the Cleveland Flower Show—Illustrated.....	782
Department of Agriculture to Build Potash Factory.....	794
The Flower Pot Industry—J. G. Whilldin.....	795
Fighting Moths in New England—Patents Granted.....	795
Greenhouses Building or Contemplated.....	796

The war blight From the office of *The Orchid World*, Hayward's Heath, Sussex, England, one of our most prized exchanges, comes the announcement that "the editor having been called up for military service, the publishers beg to notify all subscribers that *The Orchid World* will be discontinued for the duration of the war." *The Orchid*

World is a monthly, devoted exclusively to orchidology, edited by Gurney Wilson, F. L. S., up-to-date and authoritative in contents and handsomely illustrated and orchid fanciers and enthusiasts on this side of the Atlantic will, we know, join with *HORTICULTURE* in sincere regret for the enforced discontinuance of this useful journal, and in heart-felt hope that the awful conflict in Europe may soon come to an end and that the talented editor of *The Orchid World* may be providentially spared and enabled to return unharmed to the editorial chair which he has so ably filled in the past.

With this, its twelfth birthday anniversary, *HORTICULTURE* presents compliments and good wishes to the thousands of friends whose generous support has made its existence possible during these twelve eventful years. Journalistic life today is far from being a summer dream, even in this country of peace and so-called prosperity. As the situation stands today, it takes pretty good "stuff" to be worth even the paper on which it is printed. Nearly everything which enters into the cost of a publication has advanced in price, that of paper having more than doubled, and the end is not yet in sight. The most practical solution for the problem which thus confronts the publisher would seem to be fewer pages and more condensed and useful contents, and if the latter should be forthcoming the former will undoubtedly be forgiven! *HORTICULTURE* has always striven to represent all that is progressive, dignified and creditable in American horticulture. It has been our earnest desire to help in our humble way towards the advancement of horticulture as a profession, as a commercial industry and as a popular recreation, in every way possible. Our entire sympathy is with all agencies looking to the same uplifting end. Standing on the threshold of another year *HORTICULTURE* extends hearty good wishes to all its collaborators in the good work and pledges itself anew to the cause of *flowers every day in every home*.

In the printed program for the Chrysanthemum Show of the Lancaster County (Pa.) Florists' Association a praiseworthy attempt was made to prepare the public for higher rates on flowers. It was represented that an advance in selling prices is inevitable in the face of the enormous increase in the cost of labor, coal and the many smaller items indispensable in the conduct of a florist's business. It is certainly very desirable that the income from the sale of flowers in the aggregate should be materially increased in order to meet the enhanced cost of production but whether this can be best accomplished by advancing the selling price per dozen blooms or, on the other hand, by disposing of more flowers at the old prices is a question worthy of careful consideration, just so long as enormous quantities of flowers of various grades of quality are lost in the large markets at certain seasons. Indeed, under present conditions of production it is a very rare day which sees the flower market cleaned up and yet the use of flowers by the people is pitifully insignificant as compared with what it should be. What course should the flower grower pursue in order that his product shall find a greater welcome and a fuller recognition by the people—not for funerals, weddings or special holidays, but as essential adjuncts to a well-ordered daily existence? This is the florists' problem as *HORTICULTURE* sees it at the close of 1916.

The Late Bayard Thayer, Friend of the Woods and Gardens

To the Editor of HORTICULTURE:

The announcement of the sudden death of Bayard Thayer, which occurred in Lancaster, Massachusetts, on November 29th, appeared last week in HORTICULTURE, but some notice of his conspicuous service to arboriculture and horticulture may well find a place in your columns.

Fond of hunting and of the woods from boyhood, Bayard Thayer had a real love of trees and lost no opportunity to increase his knowledge of them. At the age of thirty-eight, when he established a home for himself on a nearly treeless hill in Lancaster, he began to plant trees on a large scale, wisely selecting for his principal plantations the white pine and the hemlock, the two conifers best suited for New England. Every year these plantations have been extended, and now contain several hundred thousand trees. His interest in trees, however, was not confined to those which are native to New England; and as an object lesson for future generations of lovers and students of trees he made a few years ago a pinetum which contains representatives of every coniferous plant which can grow in Massachusetts. Bayard Thayer's pinetum occupies a picturesque position, protected by natural woods; the soil is well suited for conifers, generous space has been allowed for the free and full development of the different trees, and no collection of conifers which has been made in the United States has now so great promise of beauty and interest. This pinetum and his great plantation of pines will long keep green the memory of Bayard Thayer as an intelligent lover and industrious planter of trees.

In the Thayer nurseries are growing seedlings of all the new Chinese and Japanese conifers raised at Lancaster from seeds distributed by the Arboretum, and in these nurseries have been raised many of the best of Wilson's deciduous-leaved Chinese trees and shrubs.

The native laurel grows naturally and in great beauty in Lancaster, and it was Bayard Thayer's intention to make the laurel the great decorative feature of his estate. For years he moved plants collected in other parts of Worcester county to his wood borders, and every spring has planted twenty-five or thirty thousand seedlings raised in his nurseries for this purpose. For the decoration of these woods he has had raised in his nurseries, also, all the handsomest species of American and Japanese azaleas, the flowering dogwood, and other handsome flowering native trees and shrubs; and the improvement by planting of no other American estate has been undertaken in a more systematic and intelligent manner.

Of the gardens created under the direction of Bayard Thayer—the Terrace garden with its unsurpassed Japanese yews, the crabapple and lilac gardens, and the Dutch garden with its brilliant display of tulips, it is unnecessary to speak here for they are known to all American lovers of gardens, and every year when the daffodils and tulips bloom are enjoyed by thousands of visitors from all the country round. It is doubtful if any American has, as a gardener, shown more good taste and imagination than Bayard Thayer, or in the short period of less than twenty years has accomplished more for the uplift of American horticulture. His death is a real loss, but other hands, it is hoped, will continue the work he so well began.

C. S. Sargent
Arnold Arboretum.

BENJ. HAMMOND FOR MAYOR OF BEACON.

It was announced Friday that Benjamin Hammond had been prevailed upon to enter the race for mayor and will be a candidate for the republican nomination for that office at the coming primaries, which will be held in February.

It is doubtful as to whether a better man could be found in this community to fill that important office than Mr. Hammond, and the city is indeed fortunate in gaining his consent to make the race. Mr. Hammond has always been deeply interested in the welfare of this community and has taken an active part in every movement to better local conditions. He has always been ready to give freely of his time and money and not infrequently has he neglected his private business in order to devote time to public affairs.

He is a thorough business man and for years and years has kept in close touch with municipal affairs and as a result he has the knowledge and experience that is so necessary in city government. If Beacon is to have an administration that is economical and efficient men of ability and sterling

character must be placed in office. As Mr. Hammond meets with all of these requirements his nomination and election should be the wish and desire of everyone who wants to see the city properly governed.—*From the Fishkill Standard, Dec. 2.*

"IT COULDN'T BE DONE."

Somebody said it couldn't be done.
But he, with a chuckle, replied
That maybe it couldn't, but he would be one
Who wouldn't say so, till he tried.
So he buckled right in, with a trace of a grin
On his face. If he worried, he hid it.
He started to sing as he tackled the thing
That couldn't be done, and he did it.
Somebody scoffed, "Oh, you'll never do that;
At least no one has ever done it."
But he took off his coat and he took off his hat,
And the first thing we knew he'd begun it:
With a lift of his chin, and a bit of a grin,
Without any doubting or quit it.
He started to sing as he tackled the thing
That couldn't be done, and he did it.

There are thousands to tell you it cannot be done;
There are thousands to prophesy failure;
There are thousands to point out to you,
One by one
The dangers that wait to assail you;
But just buckle in with a bit of a grin,
Then take off your coat and go to it;
Just start in to sing as you tackle the thing
That cannot be done, and you'll beat it.
—*Edgar A. Guest.*

AN APPRECIATION.

Mr. William J. Stewart,
Editor HORTICULTURE.

Dear Mr. Stewart,

I am in receipt of a marked copy of your issue of November 25th, containing an editorial on fire prevention. I am glad to see the specific nature of this editorial in which you bring the general subject close to your particular field. If trade and class publications in general were to follow your example, the net result would be the education of those who often unconsciously are dealing with fire hazard in dangerous form.

The National Board is very much in earnest in seeking to awaken such people to a sense of their dangers and responsibilities, and the co-operation of such influential journals as HORTICULTURE is an important factor to this end.

Thanking you for your co-operation, I am,

Yours very truly,

W. E. MALLAHER.

Gen. Mgr. Nat. Board of Fire Underwriters.

Conshohocken, Pa.—Florist Willis Baldwin has purchased the building in which his business is located on Fayette street.

NATIONAL ASSOCIATION OF GARDENERS

SIXTH ANNUAL CONVENTION WASHINGTON, D. C.

The sixth Annual Convention of the National Association of Gardeners was held at the New Ebbitt Hotel, Washington, D. C., on December 4 and 5, 1916, under the presidency of W. N. Craig, of Brookline, Mass. The weather was fine and everything moved smoothly, due in great measure to the cordial hospitality of the Washington florists, for which the association was most indebted to Wm. F. Gude, Washington representative of the Society of American Florists, who with his firm did much to make the stay of the gardeners enjoyable at the National Capital. The following were registered in attendance at the opening session: W. N. Craig, Brookline, Mass.; M. C. Ebel, Madison, N. J.; Joseph Manda, West Orange, N. J.; Robert Cameron, Cambridge, Mass.; George Tull, Oak Ridge, Va.; Frank Humphreys, Jericho, L. I.; Xavier E. E. Schmitt, Phila., Pa.; P. W. Popp, Mamaroneck, N. Y.; Antony Bauer, Deal Beach, N. J.; J. F. Piper, Madison, N. J.; W. A. Sperling, New York City; Percy S. Snow, Phila., Pa.; W. E. Maynard, New York, Great Neck Station; Alex. Michie, Cold Spring Harbor, N. Y.; John McIntosh, Syosset, L. I.; J. G. Melrose, Cold Spring Harbor, N. Y.; James Stuart, Mamaroneck, N. Y.; William Kleinheinz, Ogontz, Pa.; John Kuhn, Phila., Pa.; D. J. Coughlin, Glen Cove, L. I.; J. W. Everitt, Glen Cove, L. I.; A. E. Bonsey, Sewickley, Pa.; J. Barnet, Sewickley, Pa.; T. W. Head, Lake Forest, Ill.; E. B. Palmer, Bridgeport, Conn.; F. L. Mulford, Department of Agriculture, Washington, D. C.; John Scheepers, New York; George W. Hess, Supt. Botanic Garden, Washington, D. C.; W. F. Gude, Washington, D. C.; John S. Hay, Phila., Pa.; R. L. Jenkins, Anacostia, D. C.

William F. Gude delivered an address of cordial welcome. Mr. Gude spoke individually as representing his own firm, and also as representing the Washington Chamber of Commerce and the florists generally of the city. His remarks were enthusiastically received. He then introduced President Craig as the next speaker, who returned the thanks of the association to Mr. Gude, who he characterized as the "silver-tongued" orator of the Capitol City.

President Craig then delivered his address, which, in part was as follows:

President Craig's Address.

Fellow Members:—I am very glad that we have an opportunity to meet in the city of Washington, a city very dear to the hearts of every true American. Entirely apart from what we will find here of horticultural interest, there is so much that appeals to the eye, that I presume most of you would, like myself, prefer to make our business session as short as circumstances

will permit, in order that we may have more time to enjoy the architectural and other features of interest so abundantly spread before us. Having these things in mind I will not weary you with any tedious remarks.

Since our convention in Boston a year ago, which proved to be quite a successful one, in spite of the fact that we were meeting on ground largely untitled so far as our association was concerned, progress has been steady and satisfactory; and while the addition of new members has hardly reached my expectations, all things considered we have done very well and I anticipate a healthy growth during the coming year, for the better we become known, the more additions we shall make to our ranks.

It is very gratifying to know that our membership grows more truly national each year. At one time we were looked upon as a purely New York society, but that time has passed and members are now being added from all parts of our country; in fact of late the West, thanks to energetic work done by our vice-president, Mr. Theodore Wirth, and one of our directors, Mr. T. W. Head, has been adding more members than the East; and with our next convention in the West we are bound to add many more members in that section.

Our membership being truly national in character, we should spare no pains to preserve it as such. As our conventions are held only annually, there must naturally be long lapses between the visits to the various centers, and I think some plan might be evolved for the holding of occasional gatherings of members of the N. A. G. in the various centres of horticultural activity. A local secretary might be selected in each of the sections where we are the strongest who could call quarterly or semi-annual meetings of the local members and where matters pertaining to the welfare of the Association could be discussed, short reports of each being sent to the official organ. These local secretaries could perhaps collect dues as well as enroll new members, and in this way relieve our hard-worked secretary in some small measure. These meetings need not in any way conflict with the activities of the local clubs and horticultural societies.

We have during the present year been furnishing practical papers for discussion amongst the thirty-five or more local societies affiliated with us. If these have proven helpful we should continue them, and in that case we must ask your aid in helping to furnish the necessary quota of practical papers to carry the work along for another year.

The Service Bureau of the Association as it becomes better known is being more largely patronized. We cannot unfortunately secure positions for all applicants, but our good secretary has placed a good number and

would gladly have helped every one had it been in his power to do so. While there is no charge for this, we need a special fund to work more effectively, and I want to say that if those whom the Bureau has benefited would each make a small contribution, it would materially aid us. All are not unappreciative; one good member not long ago donated fifty dollars for services rendered. Is it too much to hope that others will contribute for similar reasons to this fund?

Our annual dues are small, and seem particularly so when our monthly organ, the "Gardeners' Chronicle of America" is included. Our Secretary, hard-worked as he is, and with physical disabilities to handicap him, has labored steadfastly to make our organ helpful and attractive, and has succeeded very well.

In conclusion, I am sorry that I have not been able to accomplish more for the interests of the National Association of Gardeners during my tenure of office; but I have done my best to work up an interest in it in New England, and I pledge my unstinted support to my successor, and will continue to give the Association all possible publicity. I ask the co-operation of every member in making 1917 our most successful year, and the National Association of Gardeners one worthy of our noble profession, and one which will command the respect of both gardeners and their employers.

The minutes of the last annual convention, held at Boston, Mass., were read by Mr. Popp, and duly approved.

W. F. Gude at the time announced that he had arranged to have each visitor given a pass to the Senate and House of Representative Galleries, to be signed by the Vice-President and the Speaker of the House. Also that he had made arrangements that the convention go by boat to Mt. Vernon on Wednesday, with the compliments of the Steamboat Company and the Mt. Vernon authorities. It was then ordered that the officers procure and have placed upon the tomb of George Washington, at Mt. Vernon, a suitable floral offering commemorative of the visit, also that a letter of condolence be sent to William Downs, who is prevented by illness from attendance. Sincere regret was expressed at his unavoidable absence.

The following resolution was unanimously adopted:

WHEREAS: The United States has recently concluded a treaty with Canada for the protection of migratory wild birds; and

WHEREAS: It will be necessary to enact further legislation by Congress to give effect to the terms of this treaty and to appropriate funds to carry out its provisions; and

WHEREAS: We, the members of the National Association of Gardeners, are strongly in favor of the protection of wild birds as provided for in said treaty; therefore

SPECIMEN PLANTS

For Your Rose Exhibit Next Spring

I can supply some splendid stock of the finest
Exhibition Varieties. Write to me NOW
for list of sorts, sizes and prices

Then Go In and Win

M. H. WALSH

Rose Specialist,

Woods Hole, Mass.

The Birthplace of the World's Most Famous Ramblers

BE IT RESOLVED: That, we strongly urge our Representatives and Senators in Congress to vigorously support any measures proposed to carry out the provisions of such treaty, and to support the necessary appropriations for the Department of Agriculture, so that the Department can enforce same.

George W. Hess of the U. S. Botanic Garden was unanimously elected as Washington Representative of the National Association of Gardeners. It was generally acknowledged that no better selection could have been made.

T. W. Head, of Lake Forest, Ill., made a strong plea for the holding of the next convention at Chicago, Ill., giving the east full credit for the work done in organizing the Association and building it up, but declared that now the west was ripe for missionary work and he knew of no better way to extend the work and usefulness of the Association at this time than to come west with the convention next year to Chicago. His own employer Mr. J. Ogden Armour had expressed to him the warmest interest in the matter of securing this meeting for 1917 in Chicago and had personally offered to interest himself in aid of the convention if held there. Mr. Head's remarks were applauded strongly, and on motion of Past President Everitt, Chicago was selected as the 1917 convention city. J. Barnett, of Sewickley, announced that while Pittsburgh had no objection to Chicago, he wished it understood that Pittsburgh was a candidate for the 1918 convention.

It was voted to print a list of members of the association for use of members and others. Secretary Ebel an-

nounced that the total membership was now 1,200, and that some 300 new members joined during the past year. Joseph Manda thought that the association was now of sufficient dignity and importance to justify the printing of its annual proceedings in special pamphlet form, and so moved; but on account of the present high cost of paper, etc., the motion did not carry, although the opinion was expressed that Mr. Manda's idea was an excellent one and should be followed out as soon as the state of the treasury would permit. William F. Gude was unanimously elected as an honorary member in recognition of his many courtesies.

F. L. Mulford, horticulturist of the Department of Agriculture being called upon then addressed the convention with respect to a little of the work of the department along lines in which gardeners are interested, calling attention to the work being done at Arlington Park in connection with the improvement of hardy chrysanthemums; also the rose test garden there in which the American Rose Society is co-operating, and the fine collection of peonies in co-operation with the American Peony Society, etc.

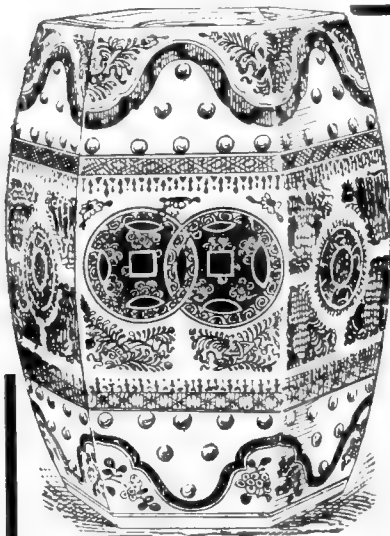
Immediately following the morning adjournment automobiles in waiting conveyed the visitors through Potomac Park, around the Lincoln Memorial across the river to Arlington Cemetery, and to the Arlington Farm of the Agricultural Department, where the various matters referred to in Mr. Mulford's remarks of the morning were pointed out. Fort Meyer was visited, the old Lee mansion of historic interest, back through Georgetown and out

to the Bureau of Standards, where a highly interesting demonstration of liquid air was witnessed, from there proceeding to Rock Creek Park and Soldiers' Home, returning to luncheon at the New Ebbitt as guests of the Gude Bros. Co., and after luncheon visiting the commercial establishments and greenhouses, including that of the Gude Bros. Co. The table decorations at the luncheon were chrysanthemums and Radiance roses, a variety that is at present exceedingly popular in Washington and which the Gude Bros. Co. can hardly supply up to the demand. The convention re-assembled in the evening and reports of officers and committees were heard. The treasurer's annual report, showed a surplus of \$2,000 in the treasury.

The following officers were elected to serve during the ensuing year: Thomas W. Head, president; Theodore Wirth, vice-president; M. C. Ebel, secretary; James Stuart, treasurer; William Turner; Peter Duff, William Duckham, William Kleinheinz and J. F. Huss, trustees.

ROSE TOURNAMENT AT PASADENA, CAL.

The Rose Tournament of Pasadena on New Year's Day this year will be one of the most gorgeous floral displays ever attempted in this country. The huge hot houses of the millionaires who make their winter homes there will be stripped for the occasion and this year, for the first time, the city has planted a municipal rose garden to supply flowers for the city and public school entries.



Canton China Hall-Seat or Plant
Pot Stand

Plant Pots and Pedestals

We invite the attention of intending buyers, or those interested in seeing the newest productions of the potters' art, to our importations of English, French, German, Japanese and Chinese **Plant Pots** or **Jardinières**, selected by our buyer at the places of production.

They include all sizes and shapes up to the large and very large, from the lowest price through the medium to the costly.

Dinner Ware. On the 3rd and 4th floor will be found an **unequalled exhibit of Dinner Sets** all values from the less expensive upwards.

Our stock of China and Glass occupies ten floors and more than 9,000 bins including everything in this line pertaining to the **Home, Hotels, Clubs, Public Institutions, etc.**

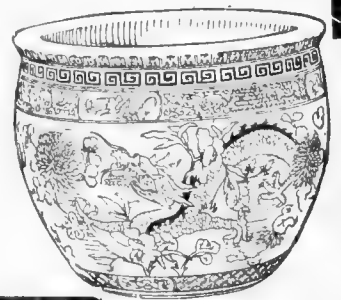
Wholesale and Retail

Jones, McDuffee & Stratton Co.

Crockery, China and Glass Merchants

33 Franklin, cor. Hawley St., Boston, Mass.

Canton China Plant Pot.



Obituary

Isaac Pollard.

This large hearted and enterprising man has been but little known outside of his own state of Nebraska. He died a few days ago at the ripe age of 86. His busy life was crowded with beneficent activities. He was one of the world's leading pomologists. His orchard was among the finest in all the land. The demand for his apples could seldom be supplied.

He came to Nebraska when the state was in its babyhood and saw it grow into influence, wealth and power. Yes, and he was among the foremost to make it grow. His farm was a very large one, and highly embellished with an immense variety of trees, shrubs and flowers. There you would see the choicest treasures of the Rockies. Besides he had ransacked the whole land for everything which could find ours to be a congenial climate.

He was a very public spirited man. Knowing by his own experience what could be done, he did his utmost to awaken farmers. At his own expense he sent out a great deal of literature to encourage others. He was large-hearted and benevolent.

He was a soldier of peace and not of war. The fame of a great general depends on the number of cities and villages he can lay in ruins, the works of art and the treasures of ages he can destroy, the number of men he can kill and the vast hosts of widows and orphans he can leave behind in his victorious march, the number of

fields he can soak in vicious blood.

The hero of peace builds up instead of destroying. He beautifies homes instead of burning them.

If a star were quenched on high
For ages would the light,
Still traveling downward from the sky,
Shine on our mortal sight.

So when a good man dies,
For years beyond our ken
The light he leaves behind him shines
Above the paths of men.

C. S. HARRISON.

John Baldinger.

It is with regret that we chronicle the death of John Baldinger, of Pittsburgh, which took place on Friday of last week at the home of a sister in Avalon, Pa., where the funeral services were held on Monday. Mr. Baldinger, who was about forty years of age, had been in precarious health for the past year owing to tubercular trouble. Prior to this period, he had been a valued employee in turn of the old Elliott & Ulam Co., the B. A. Elliott Co. and the A. W. Smith Co., and was considered by all with whom he was associated as one of the best men in the trade, as well as one of the most popular in all circles with which he was brought in contact. Mr. Baldinger, who was unmarried, is survived by his aged mother, two sisters and several brothers.

C. Thompson Adams.

Charles Thompson Adams, formerly of West Medway, Mass., died on Sunday, November 26, at his home in West Roxbury, Mass., after a long illness. Burial was at West Medway. He is survived by his wife.

Mr. Adams was 76 years old. For many years he was in business as a carnation grower, having been one of the pioneers in that specialty and very successful with the old-time varieties. In manner he was quiet and unpretentious, a gentleman in every trait that makes a gentleman of the old school, upright in every dealing with his fellowman and kindly to all.

F. N. Strail.

Fred Newell Strail was suddenly stricken with heart failure at his home 4147 Gladys Ave., Chicago, at 6.30 A. M. on Thanksgiving Day. He had been connected with the trade in various ways for many years, having been with some of the most prominent down-town florists and also in business twice for himself, and was known to everyone in the trade. He leaves a widow, Sarah A. Strail, who is at present in the employ of A. Lange, a mother and brother. The funeral was held at Central Masonic Temple, in charge of Kilwinning lodge. Interment was at Rosehill.

Mrs. Andrew McAdams.

Word has been received of the death of Mrs. Andrew McAdams, at Jacksonville, Fla., where Mr. and Mrs. McAdams have made their home since selling out their business in Chicago a few years ago. Mrs. McAdams had been in poor health for some time and recently underwent an operation for cancer. Both Mr. and Mrs. McAdams are well known around Chicago and their daughter Miss May is a graduate from the landscape gardening department of the University of Illinois.

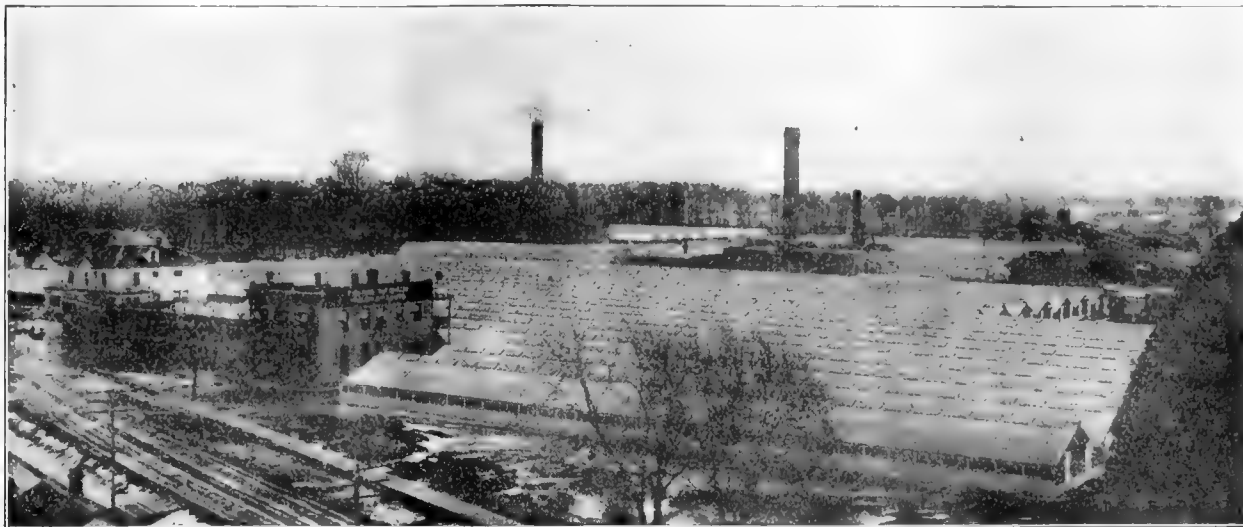
All Florists Are Invited at Any Time to Visit

POEHLMANN BROS. CO.

THE LARGEST AND MOST UP-TO-DATE GREENHOUSE ESTABLISHMENT IN AMERICA

Everything in Cut Flowers and Plants.

Order Your Christmas Stock Early!



Our Supply Department includes everything you need

POEHLMANN BROS. CO.

72 and 74 E. Randolph Street, CHICAGO, ILL.

CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

At the last meeting of the club, held on November 21, 1916, the following nominations of officers were made for the coming year: President, James Methven; vice-president, Andrew K. Rogers; secretary, William N. Craig; treasurer, Samuel J. Goddard; executive committee, Peter M. Miller, Herman H. Bartsch, Duncan Finlayson, Thomas Coles, John F. Briry, William C. Rust, William J. Kennedy, William H. Judd and George W. Hamer.

The annual election of officers will take place on December 19. Voting will be as usual by Australian ballot.

The Club will hold a field day at Framingham on Saturday, Dec. 16, and visit the establishments of S. J. Goddard, Wm. R. Nicholson, J. T. Butterworth and J. A. Nelson.

At the regular meeting on Tuesday evening, Dec. 19, J. N. Keeler, of Hitchings & Co., will give an illustrated lecture on "Greenhouses. Their Location, Design and Construction."

W. N. CRAIG, Secy.

AMERICAN GLADIOLUS SOCIETY.

The members of the American Gladiolus Society by a large majority have chosen New York City as the place for holding the annual show for 1917. The exhibition will be held in the Museum Building, New York, Botanical Garden, Bronx Park. The date will be at the time of the Convention of the S. A. F. & O. H. Secretary Youell hopes to issue the preliminary schedule next month. The list of prizes will be the largest ever offered by the society.

At the November meeting of the N. J. Floricultural Society, Max Schneider received 90 points for standard chrysanthemum exhibit, 65 for carnations, 80 for violets and 75 for cut flowers and E. Panuska received a certificate of merit for seedling chrysanthemum White Wonder and was highly commended for Bronze Bird and Yellow Bird.

Meetings Next Week

Monday, Dec. 11.

Cleveland Florists' Club, Hollenden Hotel, Cleveland, Ohio.
Gardeners' and Florists' Club of Baltimore, Florists' Exchange Hall, Baltimore, Md.
New York Florists' Club, Grand Opera House, New York City
Rochester Florists' Association, 95 Main St., East Rochester, N. Y.

Tuesday, Dec. 12.

Newport Horticultural Society, Newport, R. I.

Wednesday, Dec. 13.

Cincinnati Florists' Society, Jabez Elliott Flower Market, Cincinnati, O.
Dutchess County Horticultural Society, Falkkill Bldg., Poughkeepsie, N. Y.
Lenox Horticultural Society, Lenox, Mass.
Morris County Florists' and Gardeners' Society, Madison, N. J.
Nassau County Horticultural Society, Pembroke Hall, Glen Cove, N. Y.

Thursday, Dec. 14.

Menlo Park Horticultural Society, Menlo Park, Calif.
New London Horticultural Society, Municipal Bldg., New London, Conn.

Friday, Dec. 15.

North Shore Horticultural Society, Manchester, Mass.

BULBS BOXWOODS AT AUCTION

Do Not Forget Salesdays — Monday and Thursday
Consignments Solicited

JOHNSON & MILLANG, Inc., Auctioneers

Coogan Building, 55 57 West 26th Street, New York
(Under Cut Flower Exchange)
Salesdays Monday and Thursday at 10 A. M.
10,000 square feet devoted to our auction business
WRITE FOR CATALOGUE

OLDEST AUCTION HOUSE IN THE UNITED STATES

Consignments Solicited

Elliott Auction Co
42 Vesey St., New York

TREES

Largest assortment in New England Evergreens, deciduous trees, both common and rarer varieties.
Sturdy, choice stock that can be depended upon. Send for catalog and special trade prices

The Bay State Nurseries

North Abington
Mass.

SHRUBS

This New England climate produces fine, sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate

SUPERIOR QUALITY PAPER WHITE NARCISSUS

Imported by us for own exclusive retail trade

A few more cases to offer, 1000 first class bulbs in each case, **\$10.00 per case**

Cash only

HARRY QUINT, Florist,

520 Boylston Street
cor. Clarendon Street

BOSTON, MASS.

CHRYSANTHEMUMS IN OKLAHOMA.



AN OKLAHOMA CHRYSANTHEMUM HOUSE.

The accompanying pictures are good evidence of the way fine horticulture is progressing in the great western country which not long ago was "wild and woolly" and the last place one would look to for examples of skillful culture under glass such as is here-with shown. The varieties which appear in the pictures are principally William Turner and Yellow Turner, and the photographs were taken on November 11, this year. The scene is the greenhouse of Charles Page, Sand Springs, Oklahoma, and the gardener in charge is James Rust.

Sherborn, Mass.—M. O. Trameli, in charge of the greenhouses at the Reformatory, was badly injured when a sprayer he was using exploded. He was painfully wounded in the face, necessitating several stitches by the surgeon.

NEW CORPORATION.

Syracuse, N. Y.—Russell Bros., growers; capital stock, \$50,000. Incorporators, W. H. & J. H. Russell, W. F. Morris, L. R. Failing, Stephen King and Wm. Ellis.

BUSINESS TROUBLES.

Olivia F. Zinn, florist, 23 Central avenue, Medford, Mass., has filed a petition in bankruptcy. Liabilities, \$5307; assets, \$150.

Whitehall Gardens, situated in front of the National Liberal Club on the Thames Embankment, London, has been commandeered by the government and is being transformed by an army of workmen into large annexes to government offices close by. The statues of Outram, Bartle Frere and William Tyndale, the first translator of the New Testament, which adorn the gardens, will be covered to protect them until the place is restored after the war.



AN OKLAHOMA CHRYSANTHEMUM HOUSE

A. KOLOOS & CO.

WRITE TODAY

WRITE TODAY

Now is the Time to Order Your Plants and Shrubs to Secure Early Spring Delivery

Such as Azalea, Aucuba, Boxwood, Blue Spruce, Conifers, Clematis, Hydrangea, Lilacs, Laurels, Japanese Maples, Roses, Rhododendrons. American Hardy varieties one of our specialties, and all other Hardy shrubs for forcing or outdoor.

ROSES, Bush, Tree and Climbers in more than 300 sorts, including the leading and new up to date varieties are offered by us.

LET US QUOTE YOU ON YOUR LIST OF WANTS.

Copy Wholesale Catalogue 1917-18 Free on Application from

MR. L. VANHEERDE, c/o Maltus & Ware, 14 Stone St., New York

WRITE TODAY

WRITE TODAY

EXPORT NURSERIES

LIST OF SURPLUS STOCK AT REDUCED PRICES

DUTCH HYACINTHS

Strictly First Size, or Exhibition, Bulbs:

600 Gigantea, 250 Koh-i-noor, 550 La Grandesse, 400 General Kohler, 500 Noble par Merite, 2850 Gertrude, 675 L'Innocence, 400 Grand Monarque, 200 Garrick, etc.\$4.50 per 100, \$35.00 per 1,000

Second Size, Named:

650 Grand Maitre, 300 Cardinal Wiseman, 725 Gertrude, 1600 L'Innocence, 950 Gigantea, 950 La Grandesse, 500 Garrick, 500 Noble par Merite, etc.\$3.50 per 100, \$25.00 per 1,000

Third Size, Named:

250 Grand Monarque, 500 Sir Wm. Mansfield, 450 Moreno, 1000 Garrick, 550 La Victoire, 2200 Gertrude, 250 Johan, etc.\$2.50 per 100, \$20.00 per 1,000

Separate Colors, Single:

1300 Rose, 2500 Pure White, 1500 Light Blue, 750 Dark Red, 875 Blush White, and 675 Dark Blue.\$2.00 per 100, \$16.00 per 1,000

Miniature, Named:

1200 La Grandesse, 1300 L'Innocence, 1400 Gigantea.\$1.50 per 100, \$12.50 per 1,000

TULIPS

	per 1000
2000 La Candeur	\$9.00
1750 Le Matador	15.00
1000 Murillo	10.00
1900 Rubra Maxima	10.00
1500 Salvador Rosa	11.00
1350 Tournesol (Red and Yellow)	17.50
3000 Schoonord (White Murillo)	14.00
6500 Extra Fine Mixed	6.50
Single Early:	
2750 Cramoie Brilliant	\$8.00
4500 Keizerskroon	12.50
8500 La Reine	7.50
900 Le Matelas	15.00
1100 Pottelbakker (White)	13.50
1250 Prince of Austria	12.00
4250 Rose Grisdelin	7.50
1250 Rose Luisante	13.00
2500 Princess Helena	11.00
1000 Queen of Roses	15.00
8000 Extra Fine Mixed	6.00
Darwin:	
1100 Mr. Farncombe Sanders	\$15.00
1500 Massachusetts	16.00
950 Painted Lady	14.50
2000 Pride of Haarlem	13.00
750 Prof. Francis Darwin	12.50
800 Finest Mixed	8.50

	per 1000
Cottage, or May-Flowering:	
950 Caledonia	\$9.00
750 Isabella (Blushing Bride)	9.00
1100 Picotee (Maiden's Blush)	10.00
1000 Sweet Nancy	8.00
1000 Finest Mixed	8.00

Parrot:

1250 Admiral of Constantinople	\$9.00
900 Lutea Major	9.00
950 Markgraf van Baden	9.00
1100 Perfecta	9.00
1300 Finest Mixed	8.00

NARCISSUS

3500 Emperor, double-nosed bulbs	\$17.00
2400 Emperor, first sized bulbs	12.00
2000 Golden Spur, double-nosed bulbs	21.00
1200 Princeps, double-nosed bulbs	10.00
2200 Victoria, double-nosed bulbs	20.00
2000 Victoria, first sized bulbs	11.00
1500 Barri Conspicuous	7.00
1000 Poeticus Ornatus, double-nosed	7.50
2500 Poeticus	5.50
4500 Von Sion, double, double-nosed	22.00
2000 Von Sion, Double, first sized	11.00
1000 Paper White Grandiflora	11.00

Freesias

1000 Purity	per 1000 \$9.00
3500 Refracta Alba	per 1000 8.00

SPIREA

Gladstone	case of 100 clumps, \$9.00; \$1.25 per dozen
Queen Alexandra	case of 100 clumps, 10.00; 1.50 per dozen

F. R. PIERSON, - Tarrytown, New York

THE National Nurseryman

Official organ of the American Association of Nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.00 per year. Foreign subscriptions, \$1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
HATBORO, PA.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jan St. Weehawken Heights
P. O. No. 1, Hoboken N. J.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY. Small, medium and large sizes supplied. Price list now ready.

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers in America.

BOX 418, DUNDEE, ILL.

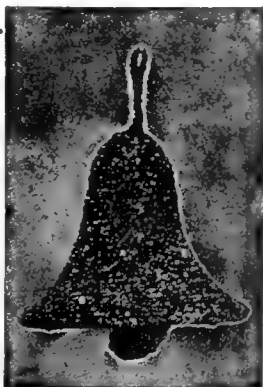
BOBBINK & ATKINS

Nurserymen, Florists and Planters

RUTHERFORD, NEW JERSEY

When writing to Advertisers kindly mention Horticulture

MICHELL'S CHRISTMAS GREENS



HOLLY (Loose)	
Extra Selected Quality	
Per full case	\$5.00
Per 5 cases	22.50
Per 10 cases	42.50
Selected Quality	
Per 1/2 case	\$2.00
Per 1/4 case	3.00
Per full case	4.25
Per 5 cases	18.75
Per 10 cases	35.00
HOLLY WREATHS	
50 100	
Extra Fine	\$5.75 \$11.50
Mitchell's Special	6.25 12.50
Mitchell's Extra	
Special	7.75 15.50
LAUREL WREATHING	
25 yard lots	6 1/2 c. per yard
100 yard lots	6 c. per yard
1000-yard lots	5 1/2 c. per yard

LYCOPODIUM (Ground Pine)	
Loose for Making Up	
5 lb. lot, \$0.60	50 lb. lot, \$4.75
10 lb. lot, 1.10	100 lb. lot, 9.00

LYCOPODIUM WREATHING	
10 yards	\$0.70
100 yards	6.50

LYCOPODIUM WREATHS	
12 inch, each	\$0.30
12 inch, per doz.	3.50

CUT BOXWOOD	
Fresh, 50 lb. box	\$8.00

NATIVE MISTLETOE	
1/2 case	\$3.00
1/4 case	5.50
Full case (16 cubic feet)	10.00

MEXICAN MISTLETOE	
50c. per lb.; box of 25 lbs., at 40c. per lb.	

MOSS (Green Lump)	
Extra Fine, per bbl. bag.	\$1.35

SHEET MOSS	
Extra Fancy, per bale	\$2.00

SPHAGNUM (Dry)	
Per bbl. bale	\$0.60
Per 5 bbl. bale	2.00
Per five 5 bbl. bales	9.00

P. S.—New customers who may not be rated in Dun's or Bradstreet's will kindly send money order or trade references with order to avoid delays in shipment of Christmas Greens.

HENRY F. MICHELL CO., 518 Market Street, Philadelphia

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending Nov. 24th, were recorded as follows:

Bulbs—Belgium, \$95; France, \$160; Netherlands, \$29,981; England, \$134; Mexico, \$98; Hongkong, \$154; Japan, \$7,830.

Plants—Belgium, \$21,801; Netherlands, \$49,283; England, \$2,259; Ireland, \$508; Bermuda, \$95; Canada, \$5; Mexico, \$5; Japan, \$48.

Red clover seed—Chile, \$3,478.

Other seeds—France, \$338; Netherlands, \$61; England, \$8,639; Argentine, \$3,531; Hongkong, \$137; Japan, \$545.

Nitrate of soda—Chile, \$106,491.

Dried blood—Argentine, \$4,673.

Other fertilizers—England, \$4,321; Argentine, \$3,160.

MASSACHUSETTS AGRICULTURAL COLLEGE.

All students are being placed in stores for the Christmas holidays.

Seniors worked at tying roses this week. At present they are at work also on a problem on the equipment, maintenance, and details of a rose establishment.

The Junior classes trenched for sweet peas this week. Next Monday a trip to the Sinclair Range at Smith's Ferry is planned to study the crops, heating system and construction of the houses.

The M. A. C. Botanical Club met at Clark Hall, Thursday evening, for the election of officers. Prof. P. J. Anderson gave a talk on "Some Interesting Fleshy Fungi Collected about Amherst in 1916." G. W. Martin gave a paper on "Some Fall Algae found about Amherst in 1916."

AZALEA SHIPMENTS SATISFACTORY.

August Rolker & Sons, New York, inform us that they have received their full complement of Azalea orders from Belgium, excepting 19 cases to follow on the S. S. Ryndam. All information received tends to show that the release by the German authorities was due to the individual efforts of the Belgian growers, assisted by "The Chambre Syndicale des Horticulteurs Belges," who had to certify to each separate invoice, which again had to be approved by the British Consul in Rotterdam, involving quite an extra charge for "Consular Fees." No end to extra expenses right and left; but no doubt all American florists are glad to receive their orders, even if somewhat belated. So far as we can ascertain, the average deliveries, notwithstanding the long confinement, have turned out pretty fair, with few exceptions. Let us hope for better conditions next season, so as to enable real prompt deliveries, in the old accustomed style.

So. Milford, N. H.—Rodney Woodman has purchased the greenhouses built by the late Howard Carlton and is to add them to his florist equipment at East Milford.

Visitors' Register

Boston: C. S. Strout, Biddeford, Me.; George C. Watson, Phila., Pa.; Thos. J. Gibson, Newport, R. I.

Chicago—Fred Rentschler and Jacob Kolb, Rentschler Floral Co., Madison, Wis.; Mrs. Lord of Lord's Flower Shop, Topeka, Kan.

Cincinnati—H. C. Crossfield, Lawrenceburg, Ky.; H. C. Newbrand, of A. N. Pierson, Cromwell, Conn.; W. Gerlack, Jr., Piqua, Ohio.

Chicago: Mrs. E. Rovatzos, Winnipeg, Man.; Chas. Pahud, Indianapolis, Ind.; Gus Bookedis, Clay Pool Hotel Floral Co., Minneapolis, Minn.; Edw. Amerphol, Janesville, Wis.

Washington—James Meiklejohn, W. A. Manda, South Orange, N. J.; Roger W. Peterson, Cincinnati; Joseph J. Goudy, Phila.; Wm. van Wilgen, Holland; John Stammes, Sassenheim, Holland; L. J. Eiger, Phila.; and many gardeners and others in attendance at the association meeting.

SCARLET SAGE

We have harvested this Autumn a satisfactory crop of

SCARLET SAGE SEED

And offer of our own growing on Bloomsdale Farms

BONFIRE or CLARA BEDMAN.....at \$18.00 per pound

This Sage is fine strain and worth the price we ask. Terms:—Net 60 days, 2 1/2 per cent. off 10, f. o. b. Bristol, Pa.

D. Landreth Seed Company **BRISTOL, PA.**

Bloomsdale Seed Farms, Established 1784.

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes
Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of
Commerce Bldg., Boston, Mass.

SPECIAL OFFER

Japanese Lilies

Longiflorum Giganteum (BLACK STEM)

7 to 9 inch	.....\$30.00 per 1000
All 8 " selected	..... 35.00 " "
All 10 " " "	..... 75.00 " "
All 12 " " "	..... 90.00 " "

ALL SELECTED BULBS OF BLACK STEM

Lilium Formosum

9 to 10 inch	.....\$80.00 per 1000
7 to 9 " "	..... 51.00 " "

Also Selected High Grade Bulbs.

Lilium Multiflorum

7 to 9 inch	.....\$44.00 per 1000
9 to 10 " "	..... 71.00 " "
10 to 11 " "	..... 96.00 " "

J. M. THORBURN & CO.

53 Barclay Street
NEW YORK CITY

KELWAY & SON

SPECIALIZE IN

SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or
Forward

Only Address, LANGPORT, Eng

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragons on
the market. Per pkt., \$1.00; 6 pkts. for \$6.00.

S. S. SKIDELSKY & CO.
PHILADELPHIA, PA.

My new Price List of
WINTER-ORCHID-FLOWERING SWEET
PEA SEED

Has been mailed. If you have not received
a copy, send me postal. Part of new crop
will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

SHAMROCK

TRUE IRISH

Trade packet 25 cts., oz. \$1, ¼ lb. \$3, lb. \$10

5% Discount, Cash with Order.

ARTHUR T. BODDINGTON CO., Inc.
128 Chambers Street, New York



SEEDS for the FLORIST

ASTERS QUEEN of the MARKET.

The best extra early variety, large, double flowers, on long
stems, in colors: Crimson, Dark Blue, Light Blue, Rose
Peach Blossom, White.

Trade Packet, 20c., Oz., 75c.

Sweet Peas, Cyclamen, Primulas, Lily of the Valley, from
Our Own Cold Storage Plant.

Our Trade List Mailed on Application.

FOTTLER, FISKE, RAWSON CO., THE SEED STORE BOSTON
Faneuil Hall Square

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

ROMAN J. IRWIN

108 West 28th St., NEW YORK

SPECIAL OFFER

LILIUM FORMOSUM

8/11, 225 to a case.....	\$80.00 per 1000
9 10, 200 to a case.....	\$5.00 per 1000
11/13, 100 to a case.....	15.00 per case
LILIUM FORMOSUM—Black Stem	
8, 10, 200 to a case.....	\$80.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
11 13, 100 to a case.....	16.00 per case

See Classified List for Seasonable Plants,
Rooted Cuttings, Seeds and Bulbs.
Write for Complete Stock Circular.
SATISFACTION GUARANTEED.

THOMAS J. GREY COMPANY

SEEDS, BULBS AND IMPLEMENTS
WHOLESALE AND RETAIL.

Reselected Strains in Seeds.
Improved styles in Implements.
Catalogue upon application.

29 So. Market Street
BOSTON, MASS

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

SEEDS, BULBS, PLANTS

AND

Florists' Necessities

AMERICAN BULB CO.

172 N. Wabash Ave., Chicago, Ill.

LILIUM FORMOSUM LILIUM HARRISII LILIUM GIGANTEUM

Prices on Application. Write for 1916
Bulb Catalog.

JOSEPH BRECK & SONS' CORP.
47-54 North Market St., Boston, Mass.

W. E. MARSHALL & CO.

SEEDS, PLANTS AND BULBS

Horticultural Sundries

166 W. 23rd St., NEW YORK

GARDEN SEED

BEEF, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
be quoted you upon application to

S. D. WOODRUFF & SONS
82 Day St., NEW YORK and ORANGE, CONN.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

Penn.
The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.
BOSTON

FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

MAX SCHLING

22 West 59th St.

Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address Dardsflor.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York
Telephone 1553-1555 Columbus

Of Interest to Retail Florists

NEW FLOWER STORES.

Newport, Ky.—A. K. Davis.

Mitchell, S. D.—Wm. Dethlefs.

Shebville, Ind.—Edwin M. Morner.

Lynn, Mass. — F. Southworth. 20
Munroe street.

Tacoma, Wash. — John Hamilton,
11th street.

Hartford, Ct.—New York Floral Co.,
Main street.

Cincinnati, O.—Fanel & Co., 6th and
Main streets.

Seattle, Wash. Aabling-Boyce Co.,
89 Pike street.

Perry, Ia.—Mrs. D. M. Kellogg. Hotel
Pattee building.

Buffalo, N. Y.—Quality Flower Shop,
379 Main street.

Jamestown, N. Y.—Mrs. A. H. Wilcox,
151 Hallock street.

Providence, R. I.—Empire Floral Co.,
Mr. Solomon, proprietor.

Lynchburg, Va.—The Home of Flow-
ers, removing to Main street.

San Francisco, Cal.—John McDon-
ald, Fillmore & Haight streets.

St. Louis, Mo.—The Rosery, John J.
Barnard, proprietor, 4119 Newstedt
avenue.

Chicago, Ill.—Southern California
Flower Market, 30 E. Randolph street
(wholesale).

Toronto, Ont.—Majestic Flower Shop,
103 Yonge street. Arcade Florist, 131
Yonge street.

A NEW INDUSTRY IN BOSTON.

The Boston Floral Supply Co., a new establishment, has taken three stories of the building at 347 Cambridge St., where the manufacture of all florists' requisites is being carried on on a large scale. Some of the machinery used is interesting in its complexity and surprising in its efficiency. This company has opened a new field in New England's floral history.

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. - - - BOSTON

Telephone Main 36.

**JOHN BREITMEYER'S
SONS**

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery Association.



GUDE BROS CO
1214 F ST NW
WASHINGTON DC

GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE
National Capital

At your service to deliver flowers
or designs on order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

DANKER
ALBANY, N. Y.

ALBANY
TROY
SCHENECTADY
RENSSELAER

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

A. T. BUNYARD
NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction
MEMBER F. T. D. A.

CHICAGOSend Your Orders to
WILLIAM J.**SMYTH**Member Florists' Telegraph
Delivery Association**Michigan Ave. at 31st Street**Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1896 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Member Florists' Telegraph Delivery Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE125,000 Sq. Ft. of Glass
WORCESTER, MASS.**Flowers by Telegraph**

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State St.

Albany, N. Y.—The Rosery, 23 Steuben St.

Albany, N. Y.—William C. Gloeckner, 97 State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont St.

Buffalo, N. Y.—S. A. Anderson, 440 Main St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid Ave.

Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th St.

Cleveland, O.—The Smith & Fetters Co., 735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643 Broadway.

Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.

Los Angeles, Calif.—Howard & Smith, 853 So. Olive St.

New London, Conn.—Reuter's.

New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.

New York—David Clarke's Sons, 2139-2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison Ave., at 48th St.

New York—Dards, N. E. corner 44th St. and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth Ave.

New York—Thos. F. Galvin, Fifth Ave., at 46th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.

Washington, D. C.—Gude Bros., 1214 F St.

Washington, D. C.—F. H. Kramer, 915 F St., N. W.

Washington, D. C.—George H. Cooke, Connecticut Ave. and I St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop

3 Pleasant St.

REUTER'S Members Florists' Telegraph Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence
ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,**CLEVELAND**

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegram order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.
ALBANY, N. Y.

EYRES
Flowers or Design Work

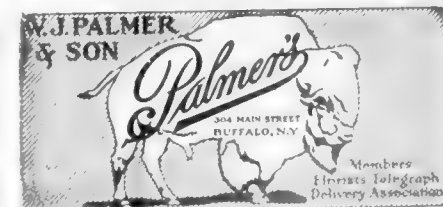
DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

"Jimmy" Anderson, a well-known buyer in the Chicago market for many years, passed away last Saturday evening.

The books of the Chicago Flower Growers' Association show an increase of 35 per cent. in its November sales over those of last year.

An accident which resulted in the death of Carl A. Jenson took place December 3, when he was struck by a train at Hubbard Woods. Mr. Jenson was a landscape gardener.

Zech & Mann have been particularly fortunate in their growers, who have kept them supplied with as choice stock as could be found anywhere during the chrysanthemum season.

Among the down-town florists who rejoice in a good November business is the Washington Flower Market, which Charlie Rogers says ran \$300 ahead of the same month last year.

The Foley Greenhouse Manuf. Co. closes its fiscal year Dec. 1st and James Foley, secretary, is working hard at the books. P. J. Foley, president of the company, is on a trip through the south.

Mr. and Mrs. Chas. T. Neiglich, 854 N. State street, have the sympathy of the trade in the loss of their daughter, Vera Alice, aged 14, on Sunday last. The funeral took place from the Grace M. E. church, Dec. 5th. Interment was in Rosehill.

As the result of getting California flowers into the Chicago market, something which was done very extensively with chrysanthemums this fall, a new wholesale house has opened on the fourth floor in the Atlas Block, known as the Southern California Flower Market.

A look in the ice boxes at the Chicago Flower Growers' Association would convince anyone that the Wellworth Farms are producing Milady roses that have no superior in the market. Ophelia and Mrs. Russell, so much in demand, are both grown very nearly to perfection by Fred Stielow for this firm.

A splendid sample of Oklahoma mistletoe was seen on the market. It was all in one piece, symmetrical in form and weighed six pounds. It was covered with berries which were remarkably fresh considering the piece had been cut for three weeks. If this is anything like what we are to have for the holidays American mistletoe will sell at sight.

Poehlmann Bros. Co. has just added another seven-ton motor truck to carry coal from the cars to Plant "B." Their contract calls for 47,000 tons of coal and because of a shortage of cars delivery was held up and Mr. Poehlmann was obliged to buy at a direct loss to the firm of \$8000 last week. Mr. Poehlmann received a wireless message today that a shipment of lily of the valley pins had been seized en route by an English vessel. It is

likely they will not reach this country, but if so the transfer will probably ruin them.

Three extensions to the greenhouses of the University of Chicago have just been completed by the J. C. Moninger Co. The company anticipates a busy season next year in greenhouse building, for the florists have had a good year and naturally many will increase their area of glass. Then too, the probability of further advance in price of materials will make early placing of orders seem the wise thing to do. Frank and Ed. Washburn of Bloomington, Ill. have just placed an order with the J. C. Moninger Co. for two new houses 34 x 150 ft.

Christmas Stock at Poehlmann's.

A visit to the Poehlmann Bros. plant at Morton Grove, Ill., found the outlook for Christmas stock most encouraging. Azaleas were coming into bloom, cyclamen were a most attractive sight in 5, 6 and 7-inch pots, while a large stock of begonias and poinsettias, always so much in demand for the holidays, were making a splendid showing. The carnation houses give evidence that a big crop will be on for Christmas, the stock consisting of 200,000 plants of Beacon and Champion for red; Enchantress, Ward, Akehurst and Alice for pink; White Perfection, White Enchantress, White Wonder and Matchless for white. In roses the stock includes all the usual varieties and American Beauty and Mrs. Russell will be especially fine. This firm has just received 266,000

lily of the valley pins which were put into storage and 800,000 more are expected.

BOSTON.

Ralph Silva, a prominent local florist, has accepted a position with G. A. Comerford, of Bethlehem, Pa.

John J. Cassidy, the Beacon street florist, is one of the twelve candidates for the three three-year terms in the City Council.

The wedding of Julia Conley, of South Boston, and William Cheney, who for some time was employed by Martin Touhy, the florist, took place Wednesday, November 29.

The question of the nomenclature of plants, botanical and popular and the effects of changes in same was a prolific subject for discussion at the December meeting of the Horticultural Club of Boston. On the table were handsome vases of roses, Francis Scott Key from E. Allan Peirce and Cleveland from L. J. Reuter.

The first state experimental station for market gardeners will open in Lexington next spring, and much interest is being manifested in it by market gardeners of Greater Boston, for they feel that the state can render them much help in fighting various diseases of plant life and in using modern methods of raising crops. The station will be located off Reed street in North Lexington on a part of what is known as the Vail Farm. There are 12 acres in the tract. The station will be conducted under the direction of the Massachusetts Agricultural College

Why

Jinn The Florist ?
Park St., Boston

Because Satisfaction Is Guaranteed!

Usual Trade Discount.

ALWAYS LEADERS!

When you buy Bayersdorfer & Co. goods you get the best in the world.

BUY YOUR FALL SUPPLIES NOW

BASKETS BASKETS BASKETS

Chrysanthemum Baskets in Japanese novelty tints.
RED—RED—RED—specialties for Christmas.

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Hampers and Flower Bowls.

Stock up now and have the goods to show customers. Send for prices and see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

trustees and the Boston Market Gardeners' Association. Prof. H. F. Thompson of Arlington, who is connected with the Agricultural College, will be district agent. It is planned to erect four or five greenhouses when money is appropriated by the state. This station has been procured through the efforts of the Boston Market Gardener's Association after about three years' work.

The George R. White Medal of Honor for 1916 has been awarded to William Robinson, the well-known horticultural writer and owner of "The Garden," London, England.

Mr. Robinson is widely known for his advocacy of natural gardening as opposed to the formal or "carpet bedding" system so much in vogue a few years since. His book "The Flower Garden" is a recognized classic on that subject and has gone through many editions. He was the founder of "Farm & Home," "Flora & Sylva" and "Garden Illustrated," the latter a popular amateur publication which still runs well. He has been physically incapacitated for active business for a number of years, but is still a power for good in all that appertains to horticulture. He has a fine estate at Gravetye, England.

WASHINGTON, D. C.

Gude Bros. Co. have a very attractive window display this week featuring the Florists' Telegraph Delivery Service.

Mrs. Nettie Supper, formerly employed at the store of Gude Bros. Co., but recently connected with the establishment of George C. Shaffer, has returned to the first-named.

The Government of the Netherlands has placed an embargo on the exportation from that country of vegetable seeds, according to a cablegram from the American vice-consul at Rotterdam to the State Department.

Charles Dearing and A. M. Grimes, scientific assistants in the bureau of

plant industry, will spend the remainder of the year at Norfolk, Va., and Willard, N. C., working on matters pertaining to muscadine grape culture.

For the fiscal year ending June 30, 1918, it is estimated that \$11,690 will be required to cultivate and care for the gardens, greenhouses and grounds of the Department. To establish and maintain an experiment farm and agricultural station on the Arlington estate \$21,900 is requested.

An appropriation of \$26,100 is required for investigations in economic and systematic botany, and the improvement and utilization of wild

plants and grazing lands. The Department will require \$250,000 for investigation of citrus canker; and for other investigations in plant industries an appropriation of \$25,500. \$243,720 is requested to cover the cost and distribution of seeds. The Department will need \$87,430 to carry into effect the insecticide act. For the investigation of diseases of forest and ornamental trees and shrubs, \$85,915. The Department expects to spend \$34,700 in studying and testing commercial seeds, including samples of seeds and grasses, clover, alfalfa and long grass seeds secured in the open market. An appropriation of \$75,000, \$20,500 of which is for salaries, is requested for the federal horticultural board.

Save from 25 to 30% on CYCAS

Size	1000	Size	1000
8 x 12	\$15.00	28 x 32	\$37.00
12 x 16	18.00	32 x 36	46.00
16 x 20	21.00	36 x 40	55.00
20 x 24	25.00	40 x 44	63.00
24 x 28	30.00	44 x 48	70.00

Baskets

TUMBLERS
PRINCESS (9 sizes)
POT BASKETS (5 sizes)
VASES
WINDOW BOXES
FANCY BASKETS, etc.

Wax Goods

ROSES, large size, \$14.00
ROSES, small size, 8.00
CARNATIONS, large size, 15.00
SWEET PEAS, 1.00
CROSSES, 50c. up
CRESCENTS, 50c. up
HEARTS, 50c. up
WREATHS, etc., 50c. up

OUR GUARANTEE:

If goods are not to your liking, return them at our expense.

We manufacture everything right in our own factory at 347-357 Cambridge St., so when you buy from us, you buy direct from the manufacturer, saving from 25c. to 33c. on every dollar. Inquiries gladly answered.

Boston Florists' Supply Co., *Manufacturers of* Cycas Leaves, Baskets, Wax Flowers and Designs

Unknown customers please give reference or cash with order. **347-357 Cambridge St., Boston, Mass.**

IN THE NATIONAL CAPITOL

Send your orders for Washington, D. C. and the surrounding country to us. We have the best stock, quickest and most satisfactory service; Prices right. We carry the largest stock by far of any Retail Flower Store in the East.

REMEMBER, every customer must be satisfied. If not, either the order will be duplicated or no pay accepted.

GUDE BROS. COMPANY

WASHINGTON, D. C.

Members Florists' Telegraph Delivery Association

FOR DETROIT

AND ALL ADJACENT POINTS

Send Your Orders for Holiday Delivery to

JOHN BREITMEYER'S SONS

26 and 28 Broadway

Quality and Service None Better

Member F. T. D. A.

CHRISTMAS and NEW YEAR DELIVERY

Flowers, Plants or Made-Up Work delivered
on order to all parts of NEW ENGLAND

PENN THE TELEGRAPH FLORIST

Member F. T. D.

124 Tremont St., Boston, Mass.

WORCESTER, MASS.

Everything in
CHRISTMAS FLOWERS
PLANTS and GREENS

Will Deliver for you in any of the following towns:

AUBURN
BERLIN
BOYLSTON
BOLTON
BROOKFIELD
BARRE
BRIMFIELD
CLINTON
CHARLTON

COLEBROOK
DOUGLAS
DAWSON
E. BROOKFIELD
E. DOUGLAS
FRAMINGHAM
FITCHBURG
FISKDALE
GRAFTON

HOLDEN
HUDSON
HOPEDALE
HARVARD
LEICESTER
LANCASTER
LEOMINSTER
MILBURY
MARLBORO

MENDON
MILFORD
NORTHBORO
N. BROOKFIELD
NORTHBRIDGE
OAKDALE
OAKHAM
OXFORD
PUTMAN, CONN.

PANTON
PRINCETON
RUTLAND
ROCHDALE
SUTTON
S. FRAMINGHAM
SOUTHBRIDGE
SOUTHBORO
SPENCER

SHREWSBURY
WESTBORO
W. BOYLSTON
W. BROOKFIELD
WHITINSVILLE
WEBSTER
WILKINSVILLE
W. MILBURY
LITTON

RANDALL'S FLOWER SHOP

'Phone Park 355 and 356.

13 PLEASANT STREET

Auto Delivery 3 Cars

WORCESTER, MASS.

Member F. T. D.

ASSOCIATED RETAIL FLORISTS OF NEW YORK.

At the regular November meeting of the Associated Retail Florists, Inc., the candidacy of George E. M. Stumpp for president of the New York Florists' Club was brought up. A resolution endorsing him and urging his election was unanimously passed.

Mr. Stumpp is one of the charter members of the retailers' Association and besides being its treasurer and director, he is held in high esteem by all of the members. It is understood that the retailers of New York City feel that the time has come when one of their number should be honored and preside over the Florists' Club, and to that end they intend to make a strenuous campaign for Mr. Stumpp's election. Among other important business was the re-election of the entire Board of Officers.

Rapid strides have been made in increasing the membership. At each meeting, groups of new members are elected. At the last meeting the following thirteen retailers were elected to membership. Herman Warendorff, William C. Mansfield, Henry Hart, E. J. Hession, John Curry, Wm. Kather, Charles A. Small, Harry Ramm, W. A. Blaedel Sons, Harry Gressner, Herman Kuhn, Robert G. Wilson and Paul F. Meissner.

At the end of the business session a large roasted turkey, a masterpiece by that floral and culinary expert, J. B. Nugent, Jr., was demolished. Included in the destruction were all the proper accompaniments.

The next regular meeting of the Association will be held December 19th, 1916. A joint meeting with the Greek-American Florists' Association will be held during the coming week. In the meantime and until the annual election of the New York Florists' Club, the retailers' slogan will be, "Vote for Stumpp."

NEW YORK.

George Stumpp, Sr., of New York, has returned from Germany, where he has been domiciled since before the outbreak of the war. It is needless to say that he received a joyous welcome from a myriad of friends.

The King Construction Co. have opened a New York office at 1476 Broadway, corner 42nd street, Long-acre Building, and H. S. de Forest is representing them.

CINCINNATI.

L. H. Kyrk is on a trip to Portland, Ind., and Kalamazoo, Mich.

The marriage of Erwin Gear and Miss Hilda Meinhardt took place last week.

The R. G. Kootz Floral Co., are now completely installed in their new store in the Gwynne. The store is pretty and attractive and the move to this location should prove a good one.

ST. LOUIS.

The florists gave a dance to their friends on December 6.

Ira Erickson and Miss McClure, formerly with Grimm & Gorly, will open a flower shop at Sarah and Chouteau.

All the wholesale houses are displaying Christmas goods such as ruscus, Japanese frieze, etc., and advance flower orders are numerous.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

Rochester, N. Y.

J. B. KELLER SONS,
FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2726
Members Florists' Telegraph Delivery

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO

Send Telegraph, Telephone or Mail orders
for florist service in this vicinity to

Howard & Smith

853 SO. OLIVE ST.

Los Angeles, Calif.

Every Order sure to receive
prompt and careful attention.

ESTABLISHED 1846

THOMAS F. GALVIN, Inc.

The Leading Floral Establishment
of New England

The Delivery of Flowers or Floral Work in Boston and Vicinity on Telegraph Orders from Anywhere is a Specialty of Our Business

Transfer Your Christmas Orders

To Either of the Following Addresses and They will be Promptly and Carefully Filled

THOMAS F. GALVIN, Inc.

1 Park Street—BOSTON—799 Boylston Street

New York Store, 561 Fifth Avenue

SOME BOSTON PLANT ESTABLISHMENTS.

Davenport.

A. M. Davenport's new boiler house, now nearing completion, is a model in its way. It is of concrete, 60 ft. x 60 ft., and the pipes have a 30 foot drop from the greenhouses. Two 150 horsepower boilers are in place and there is room for three more of equal size. At the rate this Watertown place is developing it will soon take rank with the largest plant growing establishments in the country. A prodigious amount of material is turned out. Under the benches there is almost as much stock as there is on them and the shelves suspended above the benches carry a lot more so that some of the houses are veritable "three-deckers." Cold storage houses added the past season are packed to the limit with aucubas, roses, euonymus and bulbs for winter and spring trade. The full quota of azaleas—15,000 plants—was received from Belgium; very late but in better condition than might be expected, considering the long delays in transportation. Young ferns are a specialty and there are hundreds of thousands of them in sight for present and future needs. There are innumerable young kentias and 10,000 Cocos Weddelliana seeds have been recently planted.

The houses are gay now with poinsettias, cyclamen and begonias blooming for Christmas trade and the begonias are already pretty well sold out. One of the most attractive is a deep pink sport from Glory of Cincinnati, which originated here. There is an-

other sport—a white Florence Davenport—which we think has a big future being a much larger and heavier flower than Turnford Hall. Mr. Davenport classes Melior as the best seller of all the Lorraine kinds. Glory of Nahant is too light colored for wide popularity.

Edgar.

It has long been the fashion among the florist trade of Boston as well as elsewhere to visit the Edgar Company's plant houses at Waverley at least twice a year—at Christmas and Easter time. Each fall visit finds some radical improvement in the way of new greenhouses or other buildings of substantial character. This time it is a new plant house with "1916" cut in

the concrete wall. At least one house a year is Mr. Bartsch's "stunt." Azaleas, poinsettias, winter-flowering begonias-Lorraines, etc., poinsettias, Euphorbia jacquiniæflora, cyclamens, primroses and some beautiful browallias are among the Christmas offerings and the cold storage house and frames are packed to the limit with winter and Easter plant stock.

Farquhar.

The already vast range of R. & J. Farquhar & Co., at Dedham, grows in size almost continuously and plans for future additions are constantly on foot. The ranges of low plant houses as constructed here are ideal in con-



A CORNER IN THE CLEVELAND FLOWER SHOW



FOR KANSAS CITY



And Points in Missouri
and Westward

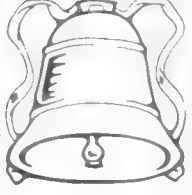
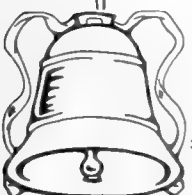
Orders for Holiday Delivery or at Any Other
Time Carefully Executed



Samuel Murray

1017 Grand Ave., Kansas City, Mo.

The Leading Flower Emporium of the West
MEMBER OF THE F. T. D.



E. P. TRACEY, Pres.

PATRICK WELCH, Sec.-Treas.

THOS. F. TRACEY, Mgr.

The Albany Cut Flower Exchange, Inc.

WHOLESALE FLORISTS' SUPPLIES AND CUT FLOWERS

Offer in their Florists' Supply Department the following CHRISTMAS GOODS, all best quality :

Prime Holly, per case, \$3.50; Laurel Roping, per yard, 6c.; Red Ruscus, per lb., 75c.; Immortelles, \$23 per 100 in case lots, \$3 per dozen in smaller quantities; Boxwood, per case, \$7.50; Red Freize Roping, per ball, 75c.; Magnolias, per box, \$1.50; Ferns, Fancy and Dagger, \$1.50 per 1,000; in 10,000 lots, \$1.25 per 1,000.

Holiday Cut Flowers—High Quality—Full Supply

Send for Quotations

611-613 BROADWAY, - - - ALBANY, N. Y.

Telephone Main 1875-1876

venience and economy. Besides the usual line of seasonable plant material a beginning has been made on a department of fancy hot-house stock such as crotons, dracaenas, pandanuses and the like and there are many tidbits of pretty little unusual things in flower for Christmas, adapted for use in combination baskets, which must be seen to be fully appreciated.

Roland.

Thomas Roland's holiday plants are, as always, the perfection of finish, bearing the unmistakable evidences of the master's handiwork. Mr. Roland says that he is about sold out already on some of the Christmas specialties. Such men scarcely need solicit business; it just comes to them.

PITTSBURGH.

Randolph & McClements are displaying the first line of new Japanese wares seen in this city, their exhibition window showing a most artistic arrangement of boxes and baskets. Their Thanksgiving display of fruit baskets filled with luscious fruits and autumn foliage with appropriate accessories attracted unusual attention.

John Yeaton, who has been ill for some time with pleurisy, expects to locate in California as soon as he is able to travel. Mr. Yeaton came to Pittsburgh some months ago from Philadelphia to take charge of the bookkeeping department of G. P. Weaklin & Co.

William J. Ferguson, who opened a flower shop on Penn avenue, East Liberty, has abandoned it and located in Cleveland, O.

Thomas Edward Tyler is supervising the planting of a deep herbaceous border around the entire grounds of his employer, Charles Dickey Armstrong. In the orchid house he has an exceptionally fine exhibition, arranged in honor of the Garden Club of Allegheny County, which was en-

tertained during the past week by Mr. and Mrs. Armstrong. The former, who is one of the ablest botanists in Western Pennsylvania and one of the original sponsors of the Horticultural Society of Western Pennsylvania, delivered an interesting lecture on orchids.

**Z M
E A
C & N
H N**

**FOR
QUALITY and SERVICE**

 **We are Wholesale Florists Doing
a Strictly Wholesale Business**

Long Distance Phone:
Central 3283 Central 3284 Automatic 42-965
30 E. Randolph St., Chicago

CHRISTMAS STOCK!

Roses, Chrysanthemums, Carnations

NOTHING FINER IN CHICAGO

The Chicago Flower Growers Association

182 N. Wabash Ave., CHICAGO, ILL.

REASONABLE PRICES

Order your Cut Flowers for Christmas from

PATRICK WELCH

Wholesale Florist

Telephones, Main 5948—2698

262 Devonshire St., BOSTON, MASS.

HOLLY, BOXWOOD, LAUREL WREATHS and FESTOONING
and a most complete line of HARDY EVERGREENS used by
the florist at

CHRISTMAS SEASON

Roses, Carnations, Valley, Lilies, Orchids, Poinsettias and all
other seasonable flowers from reputable growers. Write for prices

Flower Market Reports

BOSTON A very strong market followed upon the Thanksgiving Day clean-up and stiff prices were the rule until Tuesday when values began to sag, consequent upon the salubrious weather and increased receipts on all lines. Roses are of excellent quality and there is a good market at top quotations for all that are presented. Carnations hold up to the high limit of value also, and chrysanthemums, such as they are in the closing days of their career find ready sale at excellent figures. They are mostly Bonnafon. Lily of the valley seem to be securely fixed now in the \$8.00 a hundred notch. Violets have been gratifyingly active, and the trade is anticipating a still greater volume of business from this source. Stevia is rather plentiful and not very brisk. Repeated calls for poinsettias have been noticed this week but were only filled in a minority of cases. Asparagus is about the only plentiful thing around and both varieties have been sold heavily all the week.

CHICAGO The past week has been a very satisfactory one in the market. The Thanksgiving trade was unusually good and helped to make a better

average for the month's sales than had seemed possible. The sales of chrysanthemums were very gratifying and the proportion of the big ones left over was small. The pompons, especially those of the newer types, were much in demand and the stock of these is still excellent at this writing. It is a question how many will be left for the holidays should the warm weather continue, which at present closely resembles, or perhaps is, Indian summer. Carnations continue to sell for a lower figure than last year. Roses are sufficient for the demand and the stock runs well as to quality. Some fancy sweet peas are appearing and are very welcome. Extra fine smilax in eight feet strings is seen in some places. Lily of the valley is

scarce and that condition is now accepted as inevitable. Lilies are in excess of the demand, but are moving better than earlier in the season.

CINCINNATI Since Thanksgiving, business has been good. The supply in the market is large but not as large as it was, while the demand is much stronger than that preceding Thanksgiving. Thanksgiving business was good in spite of the fact that prices were much lower than in other years. Roses, carnations and lilies are plentiful. Chrysanthemums are still in a fair supply. Violets, sweet peas, lily of the valley, stevia and orchids all find a good market. Callas have a fair call.

(Continued on page 787)

Cut Flowers for Christmas

Ample Supplies of all staples in cut flowers

ROSES	VIOLETS	ORCHIDS
CARNATIONS	VALLEY	GARDENIAS
BOXWOOD SPRAYS, 50 lbs. \$7.50; 100 lbs. \$14.00		

EVERYTHING IN SEASONABLE GREENS

Everything in season

Long Experience

Careful, conscientious service

BERGER BROS.

1225 Race
Street

WHOLESALE
FLORISTS

Philadelphia, Pa.

CYPRIPEDIUMS

\$15.00 per 100

Gardenias—Bouvardia—Beauties

Each item you find with us in quantity. We
Specialize in Specialties.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964—1965

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000 \$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHLAND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262 B DEVONSHIRE ST., BOSTON, MASS.

Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Dec. 7		ST. LOUIS Dec. 4		PHILA. Nov. 27	
Roses						
Am. Beauty, Special	30.00	to 40.00	40.00	to 50.00	30.00	to 45.00
" " Fancy and Extra	17.00	to 20.00	30.00	to 40.00	15.00	to 25.00
" " No. 1 and culls	4.00	to 6.00	.....	to	6.00	to 12.00
Russell, Hadley	4.00	to 20.00	6.00	to 12.00	4.00	to 25.00
Killarney, Hillingdon, Ward, Extra	6.00	to 8.00	6.00	to 10.00	6.00	to 10.00
" " Ordinary	4.00	to 5.00	4.00	to 6.00	3.00	to 5.00
Arenburg, Radiance, Taft, Key, Extra	5.00	to 10.00	.....	to	6.00	to 20.00
" " Ordinary	4.00	to 5.00	.....	to	3.00	to 5.00
Ophelia, Mock, Sunburst, Euler, Extra	5.00	to 10.00	6.00	to 10.00	6.00	to 12.00
" " Ordinary	4.00	to 5.00	3.00	to 5.00	3.00	to 5.00
Carnations	2.00	to 4.00	1.50	to 2.00	2.00	to 5.00
Cattleyas	35.00	to 75.00	50.00	to 60.00	50.00	to 75.00
Dendrobium formosum	.....	to 50.00	.....	to	60.00	to 75.00
Lilies, Longiflorum	8.00	to 10.00	10.00	to 12.50	8.00	to 10.00
Lilies, Speciosum	.....	to .....	.....	to .....	.....	to
Lily of the Valley	4.00	to 8.00	5.00	to 6.00	4.00	to 8.00
Snappedragon	1.00	to 4.00	.....	to	3.00	to 10.00
Narcissi, Paper White	2.00	to 3.00	3.00	to 4.00	2.00	to 3.00
Chrysanthemums	4.00	to 20.00	12.00	to 25.00	8.00	to 25.00
Violets	.75	to 1.25	.....	to .75	.50	to 1.25
Marguerites	.50	to 1.00	.....	to	1.00	to 1.50
Gardenias	.....	to 50.00	.....	to	25.00	to 40.00
Adiantum	.....	to 1.00	.....	to .....	.75	to 1.00
Smilax	12.00	to 20.00	.....	to 12.50	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	20.00	to 35.00	25.00	to 35.00	35.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568 570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of **CUT FLOWERS**

In writing to Advertisers kindly mention Horticulture

HOLLY WREATHS AND CHRISTMAS GREENS

Every year the demand for our Holly Wreaths increases, because they are different from the cheap corner grocery kind, being made of the best Holly attainable with plenty of berries and generous foliage and the artistic make-up of men who know how.

Made on frames 9, 10, 12, 14, 16 and 18 inches; \$15.00, \$17.50, \$25.00, \$35.00, \$50.00 and \$60.00 per 100.

CASE HOLLY

We offer only one kind—selected Delaware—the best obtainable. We know you can get cheaper from Jersey and other points, but the quality is not there.

Per case, \$5.00. Special prices in quantity.

BOXWOOD SPRAYS

A. P./M. introduction which gets more and more popular as the years roll by for wreath making and all kinds of decorative work. Selected stock, dark, glossy foliage, all usable without any surplus wood. Exceptional value.

Per 50 lb. \$7.50

MAHONIA. Bronze, extra large bunches; 25 to 30 sprays each \$10.00 per doz. bunches
RETINOSPORA SPRAYS. Another P. M. introduction; very artistic. 4 lbs. will make a good size wreath.

25 lb. crates, \$7.50

LYCOPodium. We offer for prompt orders at \$10.00 per 100 lbs. As the woods are now full of snow the prices are advancing. Do not delay ordering.

LYCOPodium ROPING. Extra heavy; well made; 25 yard pieces \$10.00 per 100 yards

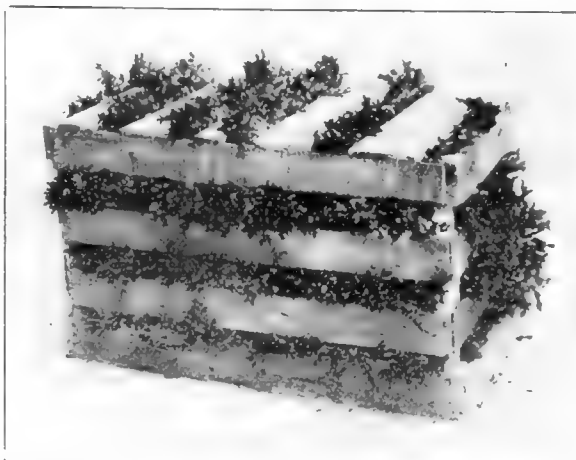
LAUREL ROPING. Extra heavy; well made; 25 yard pieces \$6.00 per 100 yards

WILD SMILAX. Per case, \$5.00

LONG NEEDLE PINES. Per doz., \$2.00; per 100, \$15.00

GALAX. Bronze and green; per 10-M case, \$7.50

NATURAL MAGNOLIA. Branches and crowns, per 50 lb. case, \$10.00



CHESTNUT OAK FOLIAGE. per 100 sprays, \$2.50
WILD NUTMEG. per 100 sprays, \$3.00
WOODWARDIA FERNS. 30 to 36 in. fronds, per 100, \$15.00
HARDY DAGGER FERNS. per 1000, \$1.50
FANCY FERNS. per 1000, \$2.00
CUT HEMLOCK. large bundle, \$2.50; five for \$10.00
RED BERRIES. per 25 lb. case, \$7.50
MEXICAN IVY. per 1000, \$7.50
LEUCOTHOE. Green, per 1000, \$7.50
FLORIDA GRAY MOSS. per 25 lb. crate, \$5.00
GREEN SHEET MOSS. per bag, \$3.50
GREEN LUMP MOSS. per large bbl., \$2.50
SPHAGNUM MOSS (dried). 100 bbl. bale, \$1.00; 5 bale lots, per bale, \$3.50; 10 bale lots, per bale, \$3.25
BRONZE HUCKLEBERRY SPRAYS. A fine decorative Green for making up, per 100, \$3.00
PARTRIDGE BERRIES. per dozen bunches, \$1.50

EVERYTHING IN FLORISTS' RIBBONS, BASKETS AND SUPPLIES. WRITE FOR PRICE LIST.



S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-20 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H. Street N. W.

Flower Market Reports

(Continued from page 755)

NEW YORK The market has been in really good shape of late. Fluctuations, of course, due to weather conditions and other causes beyond local control, but the general situation is and has been much more satisfactory than has been the case for the week following Thanksgiving Day in recent years. Chrysanthemums are quite gone. Roses and carnations are doing well, the very low quotations being generally eliminated even if phenomenally high figures are unobtainable. Cattleyas continue to hold firm at top quotations. Violets are holding nicely to the ground recaptured last week and sweet peas are also well entrenched at remunerative prices. Lilies are back from the low ground to normal values. It looks like a very bright Christmas prospect, if wise policies on the part of growers on the one side and dealers on the other are followed.

PHILADELPHIA The Thanksgiving week trade here turned out fully up to all expectations. Good prices were realized all along the line and everything that was worth clean-

(Continued on page 780)

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Dec. 4		CHICAGO Dec.		BUFFALO Dec. 4		PITTSBURG Nov. 20	
Roses								
Am. Beauty, Special.....	40.00	to 50.00	35.00	to 45.00	30.00	to 40.00	25.00	to 35.00
" " Fancy and Extra.....	25.00	to 35.00	25.00	to 30.00	15.00	to 25.00	15.00	to 20.00
" " No. 1 and culls.....	10.00	to 20.00	10.00	to 20.00	3.00	to 12.00	8.00	to 12.00
Russell, Hadley.....	8.00	to 25.00	6.00	to 25.00	4.00	to 18.00	4.00	to 12.00
Killarney, Hillingdon, Ward, Extra	8.00	to 12.00	6.00	to 10.00	8.00	to 10.00	8.00	to 12.00
" " Ord.	4.00	to 7.00	5.00	to 6.00	3.00	to 6.00	4.00	to 6.00
Arenburg, Radiance, Taft, Key, Ex.	.....	.....	.....	.....	8.00	to 10.00	.....	.....
" " Ord.	.....	.....	.....	.....	3.00	to 8.00	.....	.....
Ophelia, Mock, Sunburst, Euler, Ex	8.00	to 15.00	8.00	to 10.00	8.00	to 10.00	8.00	to 15.00
" " Ord.	4.00	to 7.00	5.00	to 6.00	4.00	to 8.00	.....	.....
Cattleyas	2.00	to 4.00	1.00	to 4.00	2.50	to 4.00	3.00	to 4.00
Carnations	65.00	to 75.00	50.00	to 75.00	60.00	to 80.00	.....	.....
Dendrobium formosum	.....	.....	40.00	to 50.00	.....	.....	.....	.....
Lilies, Longiflorum	12.00	to 15.00	5.00	to 12.00	10.00	to 12.00	.....	.....
Lilies, Speciosum	.....	.....	.....	.....	4.00	to 6.00	.....	.....
Lily of the Valley	.....	.....	.....	.....	5.00	to 7.00	6.00	to 8.00
Snopdragon	4.00	to 7.00	5.00	to 6.00	4.00	to 7.00	4.00	to 6.00
Narcissi, Paper White	3.00	to 6.00	2.00	to 3.00	2.50	to 3.00	.....	.....
Chrysanthemums	10.00	to 30.00	10.00	to 25.00	5.00	to 25.00	6.00	to 30.00
Violets	1.00	to 1.50	.....	.....	1.00	to 1.25	.....	.....
Marguerites	.....	.....	.....	.....	1.00	to 1.50	1.00	to 1.50
Gardenias	.....	.....	20.00	to 25.00	25.00	to 30.00	.....	.....
Adiantum	.....	.....	1.00	to 1.00	1.00	to 1.25	1.00	to 1.25
Smilax	15.00	to 20.00	10.00	to 20.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plu. & Spreng. (100 Bhs.)	25.00	to 50.00	25.00	to 50.00	35.00	to 50.00	35.00	to 50.00

New England Florist Supply Co.

SPECIAL — 10 BARREL Sphagnum Moss, \$3.50

276 Devonshire Street, BOSTON, MASS.

Fort Hill, 3469
Main, 4789 W

Open 6 a. m. to 7 p. m.

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street

Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE 608 FARRAGUT NEW YORK
609

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.

Est. (1903) Mad Sq. 119 W. 28 St., New York
(5003)

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.

Wholesale Commission

READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE 2281 FARRAGUT 131 West 28th St., NEW YORK CITY
3089

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.
WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 2483 Farragut

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS
GARDENIAS, DAISIES, ROSES, CARNATIONS ON HAND

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 758

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones 1664
1665 } Madison Square

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only**ROSES AND CARNATIONS**

	Last Half of Week ending Dec. 2 1916		First Half of Week beginning Dec. 4 1916	
American Beauty, Special	25.00	to 35.00	25.00	to 40.00
" " Fancy and Extra	15.00	to 20.00	15.00	to 20.00
" " No. 1 and culls	2.00	to 8.00	3.00	to 8.00
Russell, Hadley	3.00	to 20.00	3.00	to 20.00
Killarney, Hillingdon, Ward, Extra	3.00	to 8.00	3.00	to 8.00
" " Ordinary	1.00	to 2.00	1.00	to 3.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 8.00	3.00	to 8.00
" " Ordinary	1.00	to 3.00	1.00	to 3.00
Ophelia, Mock, Sunburst, Euler, Extra	3.00	to 8.00	3.00	to 10.00
" " Ordinary .....	.75	to 1.00	1.00	to 2.00
Carnations	1.50	to 3.00	2.00	to 3.00

WALTER F. SHERIDAN

Wholesale Commission Dealer In

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for do-
ing our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK
Phones 2036, 2037, 558 Farragut

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797, 798, 799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality

114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13-8510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 757)

ing up cleaned up clean. A very gratifying showing indeed and one that gives a more cheerful tone to the market in all directions—the first tuneful, bell-like-tone we have heard for many a day. Another joyful note sounds today—Monday of present week—when from all sides cometh the story of brisk business and good prices. Long may she wave. What? Certainly I mean the bell. Flags are all right but bells do also wave.

Thanksgiving was a pronounced success. The abundant sunshine of the past several days has forced the roses and carnations to an unusual degree, although they continue to bring fair prices. The high cost of coal, especially, has almost swamped the smaller dealers, who, unfortunately were caught napping when others were laying in their winter supply in anticipation of the predicted scarcity and increase in prices. Chrysanthemums have practically had their day, although some very attractive specimens are still seen. Lilies are fair but there are no lilies of the valley of home production, all being brought in from other sections. Apropos of this, the inadequate express service is causing great inconvenience and, of course, dissatisfaction in regard to tardy consignments. Thanksgiving, or, rather, what were intended to be Thanksgiving violets, arrived entirely too late for their intended purpose. Paper white narcissus, Roman hyacinths, mignonette and calendulas are now coming in satisfactorily.

With ideal weather on ST. LOUIS the 29th and 30th, Thanksgiving Day for 1916 made everyone happy. The grower, the wholesaler and the retailer were all kept busy. The chrysanthemum ruled, with yellow the favorite color. Carnations were fine but heavy in supply. Roses were somewhat scarce and prices were stiff. Violets had a satisfactory sale. Chrysanthemums in good stock were in good demand at regular rates and a few fancy blooms brought prices accordingly.

The Thanksgiving WASHINGTON Day business was highly satisfactory to all and as a result of the heavy sales there followed a great scarcity of stock and high prices prevailed into the present week. Sweet peas were in heavy demand and these with violets sold very well. Lily of the valley brought \$8 per hundred and cleaned up well, orders coming in from many northern points. There were enough gardenias and orchids to fill the demand. For the first time in many months, retailers found it hard at times to get their orders filled and, in fact, there were many flowers unobtainable. Out of town orders had to be turned down in many instances because of lack of stock.

Telephone 3560 Madison Square

WOODROW & MARKETOS
WHOLESALE

Plantsmen and Florists
37 and 39 West 28th St., NEW YORK

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

HERMAN WEISS WHOLESALE FLORIST

Can handle shipments of growers' product satisfactorily. Would like to hear from Growers of Daisies, etc., for the New York trade.

106 West 28th St., NEW YORK
Tel. Farragut 3066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Dec. 2 1916	First Half of Week beginning Dec. 4 1916
Cattleyas.....	40.00 to 100.00	4.00 to 75.00
Dendrobium formosum.....	..... to 50.00	..... to 50.00
Lilies.....	8.00 to 10.00	5.00 to 10.00
Lilies, Speciosum.....	3.00 to 6.00	2.00 to 6.00
Lily of the Valley.....	4.00 to 1.00	4.00 to 8.00
Snapdragon.....	1.00 to 4.00	2.00 to 4.00
Narcissus, Paper White.....	2.00 to 3.00	2.00 to 3.00
Chrysanthemums.....	4.00 to 25.00	4.00 to 25.00
Violets.....	.75 to 1.50	.75 to 1.00
Marguerites.....	1.00 to 2.00	1.00 to 2.00
Gardenias.....	20.00 to 40.00	20.00 to 40.00
Adiantum.....	.50 to 1.00	.50 to 1.00
Smilax.....	6.00 to 12.00	6.00 to 12.00
Asparagus Plumosus, & Spreng. (100 bunches).....	10.00 to 25.00	10.00 to 25.00

ORCHIDS - - GARDENIAS

HEADQUARTERS for the entire output of the

BEECHWOOD HEIGHTS NURSERIES, of Bound Brook, N. J.

PAUL MECONI—Wholesale Florist—NEW YORK

Telephone Nos. 3864 and 8364 Madison Square

57 WEST 26th STREET

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

82 Otis Street, 2 Winthrop Square
BOSTON, MASS.

Telephone 2618-2617-2616, Main.

William Stuart Allen Co.

Commission Merchants in

CUT FLOWERS

53 West 28th Street, NEW YORK

Telephone—356 Madison Square.

VIOLETS

B. S. SLINN, Jr., 55-57 W. 26th St.
NEW YORK

Send Flower Consignments to

L. B. NASON

Wholesale Florist

116 West 28th St., NEW YORK CITY

Shipping Orders Carefully Filled.

Correspondence solicited.

Telephone, Farragut 2245.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC)

Wholesale Commission Florists

57 WEST 28th STREET, NEW YORK

Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of
Good Stock Solicited

111 W. 28th St., - NEW YORK

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street

167 & 3058 Farragut NEW YORK

Established 1888 Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists

110 West 28th St., New York

We Solicit Consignments of New
England Grown Novelties.

Beechwood Heights Nurseries

Importers and Growers of

ORCHIDS

Cut Flowers of All the Leading Varieties
in their Season.

THOMAS YOUNG, Jr., Proprietor

BOUND BROOK, N. J.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display Advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

AUCTION SALES.

Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.

Johnson & Millang, Inc., New York City.
Bulbs and Boxwood at Auction.
For page see List of Advertisers.

AZALEAS

P. Onwerkerk, Hoboken, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

Henry A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES. Write for wholesale price-list.

JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS.

Mrs. J. A. Peterson (New), 2 1/4 in. pots, \$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.

"King Ideal" Boiler.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Hitchings & Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

August Rolker & Sons, New York City.
For page see List of Advertisers.

BOX TREES—Standards, Pyramids and Bush. Price list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

BOXWOOD SPRAYS

Pittsburgh Cut Flower Co., Pittsburgh, Pa.
For page see List of Advertisers.

BULBS AND TUBERS

F. R. Pierson, Tarrytown, N. Y.
List of Surplus Bulbs at Reduced Prices.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Lilium Harrisli, Narcissus, Hyacinth and Tulip Bulbs.
For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
French and Dutch Bulbs.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
French, Japan, Holland and Cold Storage Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc., New York City.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

WESTERBEEK & KLYN, SASSENHEIM, HOLLAND.
Write for prices on all kinds of bulbs to 14 Stone St., New York.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 postpaid. I. L. PILLSBURY, Galesburg, Ill.

CHRISTMAS GREENS

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

CHRYSANTHEMUMS

Charles H. Totty, Madison, N. J.
Chrysanthemum Novelties for 1917.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co., White Marsh, Md.
Pompon Chrysanthemums.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Or Frank Dinda, Farmingdale, N. Y.
Chrysanthemum—Alex Guttman.
For page see List of Advertisers.

CINERARIAS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

ORDERS BOOKED ANY TIME

For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newwest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Julius Roehrs Co., Rutherford, N. J.
Choice Flowering and Foliage Plants.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

For Plants and Cuttings get our prices before ordering elsewhere. Our guarantee with every order. Write for a copy of our latest Plant Bulletin.

Asparagus	Cyclamen	Primula
Begonias	Daisies	Smilax
Bulbs	Dracaena	Snapdragons
Calceolaria	Ferns	Violets
Calendula	Geraniums	
Cineraria	Hydrangeas	

S. S. PENNOCK-MEEHAN COMPANY,
Philadelphia, 1608-1612 Ludlow St.
Baltimore, Franklin and St. Paul St.
Washington, D. C., 1216 H St., N. W.
New York, 117 W. 28th St.

FERNS

A. M. Davenport, Watertown, Mass.
Small Ferns for Dishes.
For page see List of Advertisers.

R. Vincent, Jr., & Sons Co., White Marsh, Maryland.
Boston Ferns.

For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

For List of Advertisers See Page 755

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

FLORISTS' PLANT STOCK

Anglin & Walsh Co., Williamsbridge, N. Y.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums, S. A. Nutt, 2 in., \$2.00 per hundred, \$18.00 per thousand; rooted cuttings, \$12.00 per thousand. Cash. Also few white cuttings and 2 in. W. E. ALLEN, Leominster, Mass.

GLADIOLI

John Lewis Childs, Flowerfield, L. I., N. Y.
New Catalogue.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GLASS—6 x 8, 8 x 10, 10 x 12, 10 x 14, \$1.90 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish goods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GRAPEVINES

R. & J. Farquhar & Co., Boston, Mass.
Hot House Grapevines.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.
Pecky Cypress.

For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION—Cont.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Hitchings & Co., New York City.

Metropolitan Material Co., Brooklyn, N. Y.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

HOSE

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

H. A. Dreer, Philadelphia, Pa.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co., Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

HYDRANGEAS

Anglin & Walsh Co., Williamsbridge, N. Y.
Otaksa and Avalanche.
For page see List of Advertisers.

INSECTICIDES

Hammond's Paint & Slug Shot Works, Beacon, N. Y.

Hammond's Thrip Juice No. 2.
For page see List of Advertisers.

Aphine Manufacturing Co., Madison, N. J.
Aphine.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Lemon Oil Insecticide.

B. G. Pratt Co., New York City.
Scalecide.

IVIES

A. M. Davenport, Watertown, Mass.
English Ivies.

For page see List of Advertisers.

LILY BULBS.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Lilium Harrisii Bulbs.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Lilium Giganteum.
For page see List of Advertisers.

Roman J. Irwin, New York City.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hohmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.
Hatboro, Pa.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

A. Koloos & Co., Gouda, Holland; also L. Vanheerde, care Maitus & Ware, 14 Stone St., New York City.
Holland Grown Roses, Plants and Shrubs.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Boblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Beechwood Heights Nurseries, Bound Brook, N. J.
Importers and Growers of Orchids.
For page see List of Advertisers.

Julius Roebbs Co., Rutherford, N. J.
For page see List of Advertisers.

Francisco Delgado Q. Bogota, Colombia.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.

In writing to Advertisers kindly mention Horticulture

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

PEONIES

F. J. Grootendorst & Sons, New York City.
Herbaceous Chinese Peony Lord Kitchener.
Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PIPE AND FITTINGS.

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Hardy Roses.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

A. Koloos & Co., Gouda, Holland; also
L. Vanheerde, care Maltus & Ware,
14 Stone St., New York City.
For page see List of Advertisers.

SASH

STANDARD HOTBED SASH, with cross
bar, 85c. each; lots of 25 and over, 80c.
each. Satisfaction guaranteed or money
refunded. Glass 6 x 8, 8 x 10, 10 x 12 or
10 x 14, \$1.50 per box of 50 sq. ft.
C. N. ROBINSON & BRO., Dept. 29, Balti-
more, Md.

SCALECIDE

B. G. Pratt Co., New York City.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.

Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

SEEDS—Continued

A. T. Boddington Co., Inc., New York City.
Shamrock Seed
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Amt. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snappdragon.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Seeds, Selected Strains.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
For page see List of Advertisers.

Roman J. Irwin, New York City.
For page see List of Advertisers.

S. D. Woodruff & Sons, New York City and
Orange, Conn.
Garden Seeds.
For page see List of Advertisers.

Fottler, Flisk, Rawson Co., Boston, Mass.
Seeds for the Florist
For page see List of Advertisers.

Clematis paniculata, Stokesia cyanea and
other seeds. BENJ. CONNELL, Florist,
Merchantville, N. J.

SHAMROCK SEED

Arthur T. Boddington, New York City.
For page see List of Advertisers.

SPHAGNUM MOSS

New England Florist Supply Co., Boston,
Mass.

For page see List of Advertisers.
Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.

For page see List of Advertisers.

**LARGE RHUBARB AND ASPARAGUS
ROOTS** for forcing in cellar or green-
house during winter. These vegetables are
easily grown and may be had fresh and
crisp all winter. May be very profitably
grown for market, as they sell for high
prices during winter. Directions for grow-
ing and prices of roots sent free. HARRY
E. SQUIRES, Good Ground, N. Y.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.
The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VIOLETS

Clarence Slinn, 123 West 28th St., New York
City.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

**WILLIAM E. HEILSCHER'S WIRE
WORKS**, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 568-570 Washing-
ton St.
For page see List of Advertisers.

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.

Zech & Mann, 30 East Randolph St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 264-266
Randolph St.
For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
For page see List of Advertisers.

Hentz & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Traendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

Paul Meconi, 57 West 28th St.
For page see List of Advertisers.

For List of Advertisers See Page 755

WHOLESALE FLORISTS New York—Continued

Woodrow & Marketos, 37 and 39 W. 28th St.
For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 53 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Guttman & Raynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunther Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

George W. Crawbuck Co., 47 West 28th St.
For page see List of Advertisers.

William Stuart Allen Co., 53 West 28th St.
For page see List of Advertisers.

L. B. Nason, 116 West 28th St.
For page see List of Advertisers.

Clarence Slinn, 123 West 28th St.

B. S. Slinn, Jr., 55-57 West 26th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.

THE NUT-GROWER

The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

NEW OFFERS IN THIS ISSUE

A SLEEPLESS WATCHMAN.

Standard Thermo Co., Boston, Mass.
For page see List of Advertisers.

BULBS FOR EASTER BLOOMING.

Hogewoning & Sons, New York City
For page see List of Advertisers.

CHOICE CHRISTMAS PLANTS.

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

CHOICE FLOWERING AND FOLIAGE PLANT STOCK.

Julius Rochrs Co., Rutherford, N. J.
For page see List of Advertisers.

CHRISTMAS AND NEW YEAR'S FLOWERS BY TELEGRAPH.

Penn. the Telegraph Florist, Boston, Mass.
For page see List of Advertisers.

CHRISTMAS FLOWERS BY TELEGRAPH IN THE NATIONAL

CAPITOL.

Gude Bros. Co., Washington, D. C.
For page see List of Advertisers.

CHRISTMAS FLOWERS BY TELEGRAPH.

Thomas F. Galvin, Inc., Boston and New York.
For page see List of Advertisers.

CHRISTMAS FLOWERS BY TELEGRAPH.

F. A. Banker, Albany, N. Y.
For page see List of Advertisers.

CHRISTMAS FLOWERS BY TELEGRAPH.

Randall's Flower Shop, Worcester, Mass.
For page see List of Advertisers.

CHRISTMAS FLOWERS BY TELEGRAPH.

Samuel Murray, Kansas City, Mo.
For page see List of Advertisers.

CHRISTMAS FLOWERS BY TELEGRAPH.

Julius Zinn, Boston, Mass.
For page see List of Advertisers.

CHRISTMAS PLANTS AND FLOWERS.

Poehlmann Bros. Co., Chicago, Ill.
For page see List of Advertisers.

CHRISTMAS FLOWERS AND GREENS.

Patrick Welch, Boston, Mass.
For page see List of Advertisers.

CHRISTMAS PLANTS.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

CHRISTMAS PLANTS.

A. L. Miller, Jamaica, N. Y.
For page see List of Advertisers.

CHRISTMAS STOCK.

Chicago Flower Growers' Association, Chicago, Ill.
For page see List of Advertisers.

CUT FLOWERS FOR CHRISTMAS.

Berger Bros., Philadelphia, Pa.
For page see List of Advertisers.

CYCAS, BASKETS AND WAX GOODS.

Boston Florists' Supply Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POT WASHERS.

Fowler Mfg. & Supply Co., Cleveland, Ohio.
For page see List of Advertisers.

FLOWER SEEDS FOR EARLY SOWING.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

William H. Lutton Co., Jersey City, N. J.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION.

The Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION.

John C. Moninger Co., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE GLASS.

Royal Glass Works, New York City.
For page see List of Advertisers.

HAND-MADE GREENHOUSE GLASS.

Johnston Brokerage Co., Pittsburgh, Pa.
For page see List of Advertisers.

HIGH QUALITY HOLIDAY SUPPLIES AND FLOWERS.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

HOLLAND NURSERY STOCK.

August Rolker & Sons, New York City
For page see List of Advertisers.

HOLIDAY FLOWERS BY TELEGRAPH.

John Breitmeyer's Sons, Detroit, Mich.
For page see List of Advertisers.

HOLLY WREATHS AND CHRISTMAS GREENS.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

JAPAN LILY BULBS.

McHutchison & Co., New York City.
For page see List of Advertisers.

JAPAN LILY BULBS.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

NEW CARNATION ALBERT ROPER.

Albert Roper Estate, Tewksbury, Mass.
For page see List of Advertisers.

NEW CHRYSANTHEMUMS FOR 1917.

Elmer D. Smith & Co., Adrian, Mich.
For page see List of Advertisers.

PLANT POTS AND PEDESTALS.

Jones, McDuffee & Stratton Co.
For page see List of Advertisers.

QUALITY AND SERVICE.

Zech & Mann, Chicago, Ill.
For page see List of Advertisers.

SCARLET SAGE SEED.

D. Landreth Seed Co., Bristol, Pa.
For page see List of Advertisers.

SPECIMEN ROSE PLANTS FOR FORCING

M. H. Walsh, Woods Hole, Mass.
For page see List of Advertisers.

SUPERIOR QUALITY PAPER WHITE NARCISSUS.

Harry Quint, Boston, Mass.
For page see List of Advertisers.

VENTILATING MACHINES.

Advance Co., Richmond, Ind.
For page see List of Advertisers.

WINDOW AND PLATE GLASS.

Louis Cohen, New York City.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture



IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year? LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL COMPANY
BOSTON, MASS.

DEPARTMENT OF AGRICULTURE TO BUILD POTASH FACTORY

A plant on a commercial scale will be built by the Department of Agriculture for the conduct of experimental work in the production of potash from kelp, an appropriation of \$175,000 for the purpose having been made at the last session of Congress. Two locations are under consideration, one near Santa Barbara, the other near Long Beach, California. It is expected that a definite location for the Department's factory will be selected shortly and that the work of constructing the plant will begin soon afterward.

The plans call for a plant capable of handling approximately 200 tons of wet kelp per day. Electric power probably will be used for all mechanical operations, while heat for drying and distillation will be furnished by crude petroleum. The equipment will consist of drying kilns, distilling chambers, vats, handling machinery, and the necessary buildings to house this apparatus.

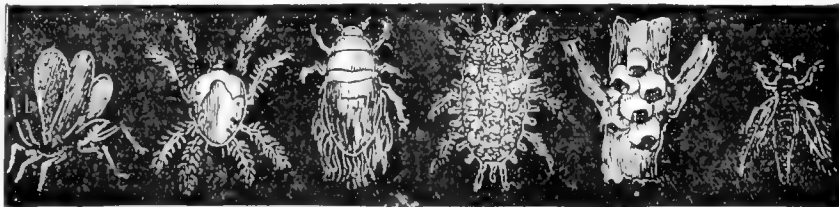
From the 200 tons of kelp used daily about five tons of muriate of potash will be manufactured. The product will be sold and the proceeds turned into the U. S. Treasury. The primary purpose of the plant will be to determine the most economical processes for producing potash from kelp and to work out methods for the recovery and utilization of by-products. Numerous methods will be employed experimentally in operating the factory with this end in view. For the most part, however, the department will depend on distillation processes.

The department has decided to locate its experimental factory in southern California because of the combination in this region of an adequate supply of kelp and admirable operating conditions. The kelp grows in vast groves in water about 60 feet deep along extensive sections of the Pacific coast. For use in the manufacture of potash it is gathered by ocean-going harvesters which cut the plants beneath the water. In some places the beds extend to the three-mile limit, but in the neighborhoods now being considered by the department as locations for its factory the groves are much narrower. The plants grow rapidly, and it is believed that little difficulty will be experienced in obtaining an adequate supply of raw material.

Hammond's Thrip Juice No. 2

REGISTERED

A Contact Insecticide, Useful and Reliable, Used for 30 Years in Greenhouses, and on Plants, Grape Vines, Trees and Shrubs



Some common Sucking Insects, magnified.

HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.



Unequalled for Greenhouse and
Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

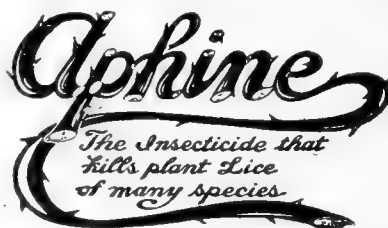
Little Ads. That Bring Big Returns

Little Ads. in our Classified Buyers' Directory bring big returns to both advertiser and purchaser.

Anything wanted by florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium.

THEY COST ONLY ONE CENT
A WORD UNDISPLAYED

Don't fail to read over these Ads. in each issue and you may find one or more that will prove profitable to you.



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.

When writing to advertisers kindly
mention **HORTICULTURE**.



NIKOTEEN
For Spraying
APHIS PUNK
For Fumigating
Ask Your Dealer For It.
NIKOTINE MFG. CO.
ST. LOUIS

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**THE FLOWER POT SHORTAGE.**

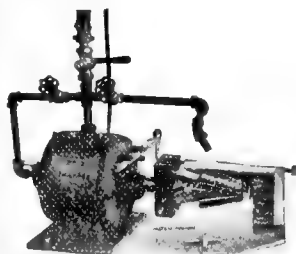
I noticed a statement in the New York news letter of one of the florist trade papers that the shortage of flower pots is causing men to be laid off. There is a shortage, but let's be fair and place the blame where it belongs. I know there are potteries enough throughout the country each well equipped with sufficient kilns and machinery to make pots plenty, if men could be obtained to run them. There has been, and is, many dollars' worth of idle machinery because of "labor" and on labor alone I place the principal reason for the shortage. The advance in wages has been met each time and no doubt will soon have to be met again. The total number of pots used is no greater than in former years, neither is the demand larger, but long delayed shipments make it appear so, and one good reason for delay is the freight embargoes placed upon the eastern cities by the railroad companies.

The grower must understand that during all last spring and summer the potter was fighting for him, while running with a depleted labor force, trying to get the additional labor necessary to make up the stock of pots needed for this fall trade, and that he is still trying hard to fill his fall orders and making stock for the coming winter and spring trade, hoping to have enough for all hands when needed. As far as the Whilldin Pottery Company is concerned we are now working to full capacity and gradually catching up with our fall orders. Our trouble at present is "Freight Embargo."

J. G. WHILLDIN, Pres.

FIGHTING MOTHS IN NEW ENGLAND.

Twelve million nine hundred and forty-seven thousand seven hundred and thirteen parasites which prey on the gipsy moth were released in Massachusetts and New Hampshire last year by the Bureau of Entomology of the U. S. Department of Agriculture. Of these, 661,713 were Japanese parasites known as *Schedius kwanai*. These were liberated in 28 towns in Massachusetts and 11 in New Hampshire. Another enemy of the gipsy moth, known as *Anastatus bifasciatus*, was colonized in 14 towns in Maine, 31 towns in New Hampshire and 71 towns in Massachusetts. In all 12,286 colonies of this species containing 12,286,000 individuals, were liberated to aid in the work of controlling the gipsy moth pests. These two parasites place their eggs in the egg of the gipsy moth, the eggs of the parasites hatch into larvae, or grubs, and these feed upon the developing caterpillar within

What Do You Do With Your Foul Pots?

THROW THEM AWAY?—WASTEFUL!
CLEAN THEM BY HAND?—LABOR TOO COSTLY!
USE THEM DIRTY?—RESULTS NOT STANDARD!

WHY DO EITHER?**The Presto Pot Washer**

Does Ten Men's Work With Better Results,
Electric, Water, and Belt Driven
Write and tell us what power you have

FOWLER MFG. & SUPPLY CO.

808 Park Building

CLEVELAND, O.

DREER'S "Riverton Special" Plant Tub

No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.60	\$17.50	\$145.00
20	18 in.	1.45	15.50	130.00
30	16 in.	1.10	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

the eggshell and kill it before the egg has a chance to hatch. According to the annual report of the chief of that bureau just published by the U. S. Department of Agriculture, the parasites previously released seem to be gaining a foothold and many of them are now found in larger numbers and over a wider territory than ever before. The Calosoma beetle, another insect enemy of the moth, the report states, is continuing its good work, although apparently the beetles are not so numerous in certain localities as they were last year.

In New England, in cooperation with State official and other State agencies, considerable progress is being made in fighting the gipsy moth. This year in two towns in New Hampshire, two in Vermont, four in Massachusetts and three in Connecticut, the insect has apparently been exterminated. Extensive scouting to determine its spread showed that the moth has been found in 15 towns where it was not known to exist before. This gives a net increase of only four infested towns, which, the entomologists say, is a much smaller number than has been reported in previous years. All of the infestations discovered in these towns have been carefully treated and a large amount of creosoting of egg masses and banding and spraying of trees has been done in towns immediately inside the border. During the year approximately 35 tons of arsenate of lead were used and over 12,000 miles of roadway and 24,000 acres of woodland have been examined.

PATENTS GRANTED.

- 1,205,255. Mowing machine. Charles Pearson, Chicago, Ill., assignor to International Harvester Company, New Jersey.
1,205,537. Flower Holder. Helen Hilpert, Glenside, Pa.
1,206,165. Bouquet Holder. William Suggs, Holly Spring, Miss.
1,206,215. Universal Seed-Planter. John A. Bardner, Grifton, N. C.
1,206,708. Flower-Pot. Charles A. Hutchins, Lakewood, Ohio.

**NON-KINK WOVEN HOSE**

In any length (one piece) with couplings, 15c. per foot. Unequalled at the price.

**Hose Valve, 70c.**

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stiffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

**STANDARD FLOWER
POTS**

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST

29th & M Sts., Washington, D. C.

HIGH-GRADE**Hand-made Greenhouse Glass**

We are the largest distributors of **Hand-made Greenhouse Glass** in the **United States.**

Factories located in Pennsylvania, West Virginia, Ohio, Indiana.

Careful selection and packing. Uniform quality guaranteed. Shipping facilities unequaled.

Our Specialty: QUALITY and SERVICE.

All reputable dealers handle our brands. Send us your inquiries.

JOHNSTON BROKERAGE COMPANY

2106 First National Bank Building, PITTSBURGH, PA.

Eastern Representative:

E. H. FLOOD Room 807, 309 Broadway, New York, N. Y.
(Franklin Bank Bldg., Philadelphia, Pa.)

Western Representative:

H. A. COLE, 323 Manhattan Building, Chicago, Ill.

Kansas City Office:

P. E. CUNNINGHAM, Secretary-Treasurer,
1019 Commerce Bldg., Kansas City, Mo.

Dallas Office:

A. D. MARTIN, Sumpter Bldg., Dallas, Texas.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 147 Summer St., Boston.

HELP WANTED

WANTED a young man of neat appearance for general greenhouse work and help at designing. State wages and full particulars. References required. Address P. M. OLM, Bath, Maine.

SITUATIONS WANTED

SITUATION WANTED by single man, 17 years' experience on private estates. No trifles answered. "G. D." care HORTICULTURE, Boston.

WANTED General greenhouse work by a young, single man. Two years' experience; willing and anxious to learn; trustworthy; references. "H. T." care HORTICULTURE.

WANTED—Young man for private place, under glass, with some experience of general plant culture; must be smart and attentive to his duties. Send references and full particulars, stating salary expected with room. **FRANCIS LAZENBY**, Rocky Point, Plymouth, Mass.

WANTED—For private estate, experienced single man as first assistant under glass. Must understand grape growing and be a successful grower of the general run of plants for at bloom. Give full particulars and references, stating salary expected with room. **FRANCIS LAZENBY**, Rocky Point, Plymouth, Mass.

GREENHOUSES BUILDING OR CONTEMPLATED.

Wahpeton, N. D.—H. Osen, house 25x100.

Los Angeles, Cal.—Fred Hills, additions.

Milford, N. H.—R. Woodman, house 25x100.

Lynchburg, Va.—J. J. Fallon, range of houses.

Falmouth, Mass.—George E. White, one house.

Clarion, Ia.—Stutters & Nicholson, one house.

Tulsa, Okla.—W. R. Maxwell, range of houses.

Salt Lake City, U.—Capitol Grounds, house 30x60.

Newport, R. I.—Thos. J. Gibson, house, 18 x 50.

New Providence, Pa.—Edward Hilbrand, addition.

Hollywood, Cal.—G. W. Smith, range of propagating houses.

Webb City, Mo.—O. C. Moore, additions and alterations.

Port Dover, Ont.—T. A. Ivey & Sons, Ltd., rose house 60x300.

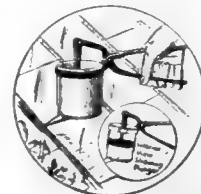
Indianapolis, Ind.—Baur & Steinkamp, one plant house.

Cherry Creek, N. Y.—Ora Brown, N. Main street, one house.

Washington, D. C.—Geo. Lavalley, two houses, each 25x150.

Shamokin Dam, Pa.—Grover Reichley, Helen street, one house.

Woodfords, Me.—Sawyer Greenhouses, service house and propagating house.



Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

Seal-tight liquid putty at \$1.25 per gallon.
METROPOLITAN MATERIAL CO.
1392-1414 Metropolitan Ave., Brooklyn, N. Y.

GREENHOUSE GLASS

Double and single thick selected glass all sizes from 6x8 to 16x24. Ten boxes or more at wholesale prices.

ROYAL GLASS WORKS
120 Wooster Street NEW YORK CITY

LOUIS COHEN Window and Plate Glass

86 1st Avenue, NEW YORK CITY

Double Thick 16/24 for the Florist

A SPECIALTY. WRITE ME FOR PRICES.

The Florists Hall Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address **JOHN G. ESLER, Sec., Saddle River, N. J.**

FOLEY GREENHOUSES



O. C. BARBER'S FRUIT AND FLOWER HOUSES.

OUR facilities are the best for designing and manufacturing any type of house, and our experience assures you a structure which will be found desirable in every respect. If you contemplated building send us your inquiry, we will save you money :-: :-:

The Foley Greenhouse Mfg. Co.
3275 West 31st Street, Chicago, Ill.



CAN SHIP ANY SIZE AT ONCE

**Telephone or
Telegraph Order
at Our Expense**

KROESCHELL BROS. CO., 444 West Erie Street
CHICAGO, ILL.

MASTICA



For Greenhouse
Glazing
USE IT NOW

F. O. PIERCE CO.
12W. BROADWAY
NEW YORK

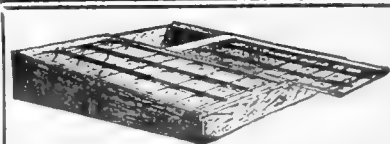
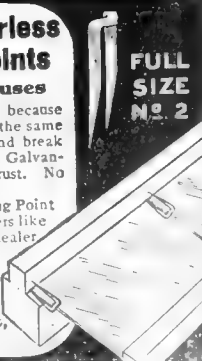
Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

**Dreer's Peerless
Glazing Points
For Greenhouses**

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.
Samples free.
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

**FULL
SIZE
No. 2**



HOTBED SASH at 80c. each
Made of best grade Gulf cypress.
Glazed Hotbed Sash from \$1.65 up.
Double Light Sash up to \$4.00.

We carry a large stock of all sizes.
Write us for estimate

S. JACOBS & SONS
1359-1385 Flushing Avenue BROOKLYN, N. Y.

In writing to Advertisers kindly mention Horticulture

MONINGER GREENHOUSES



Conservatories erected by us for
Mr. Henry Ford at Detroit, Mich.

Prominent people all over the United States specify "Moninger Greenhouses" when they build, because of the quality of our materials, the excellence of workmanship, the prompt and pleasant service, the reasonableness of our prices and our reliability as a company.

Get our figures the next time you build; they cost you nothing.

JOHN C. MONINGER CO.

CHICAGO
922 Blackhawk St.

NEW YORK
812 Marbridge Bldg.

CINCINNATI
2314 Union Central Bldg.

EVERYTHING FOR THE GREENHOUSE

CYPRESS GREENHOUSE STOCK

PECKY CYPRESS BENCH STOCK

HOT BED SASH

Ask for Circular D and Prices

THE A. T. STEARNS LUMBER COMPANY

NEPONSET, BOSTON



CONSTANTLY IMPROVING

Thirteen years ago December 4th our first patent was issued on the widely known Advance Ventilating Machine. Since then thirteen more patents have been granted to us for things just for your benefit Mr. Florist.

For satisfaction use Advance materials only, catalog free from

ADVANCE CO. RICHMOND, IND.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

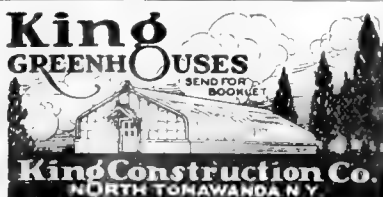
CHICAGO, ILL.



Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.



EVERYTHING FOR THE GREENHOUSE

**Ready for Immediate Delivery
In Any Quantity**

Should you desire to purchase the various parts and do your own building, see us.

CYPRESS. Gulf Cypress, thoroughly air dried, in any quantity up to cargo lots.

BOILERS. All kinds, all sizes. Scientifically perfect. Fuel saving.

VENTILATING APPARATUS. Simple but reliable, easy to operate.

FITTINGS. For heating, irrigating, benches, construction.

HOTBED SASH. All sizes. Thousands in stock.

PUTTY and Liquid Putty.

GLASS, all sizes, any quantity.

Our stock comprises anything and everything pertaining to greenhouse construction.

**WE CAN SAVE MONEY
FOR YOU.**

S. Jacobs & Sons

Greenhouse Builders
1359-1385 Flushing Avenue
BROOKLYN, N. Y.

GLASS

**GREENHOUSE MATERIAL
HOT-BED SASHES**

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

PATENTS

Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

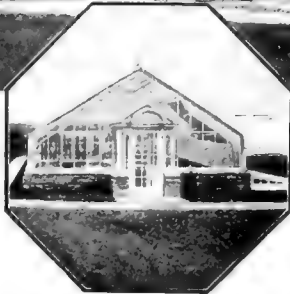
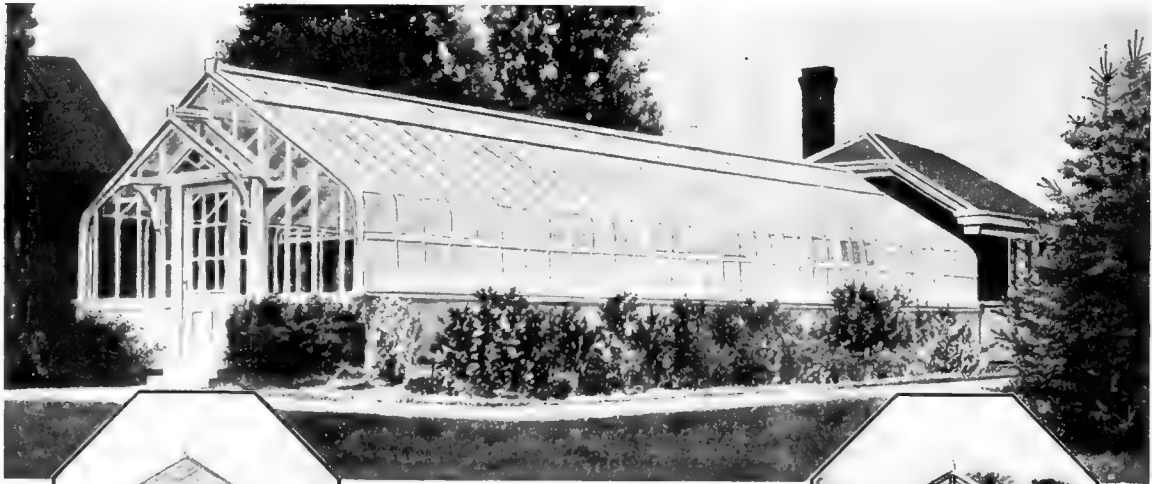
We
Design and Erect
GREENHOUSES

THAT HAVE NO EQUAL
IN

Design, Stability, Efficiency

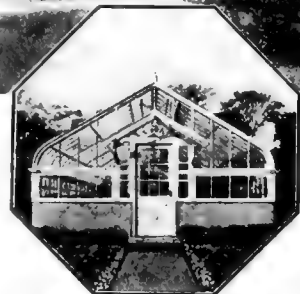
SEE THIS SPACE
NEXT WEEK

William H. Lutton Company
Jersey City, N. J.



The standard curved eave having wall vents.

The angle vent method with the sash hinged direct to a steel angle.



The modified curved eave with moulded gutter at the eave and sash hinged to it.

Side Ventilation For Private Houses Three Ways Of Solving It

THERE is an undoubted graceful freedom to the curved house that many like, in spite of the fact that some architects claim that the laws of design demand that there be a cornice effect at the eave, such as a moulded gutter gives.

The question of design, however, is mainly a matter of opinion; but ventilation is not. It's an undodgeable necessity.

Some feel that the standard curved eave with wall vents answers the purpose for them.

Some don't.

For those who don't, we have two solutions. As far

as efficiency is concerned, one is as good as the other. As for looks—you can best decide that for yourself.

One way is to put a steel angle at the base of the eave, and hinge the continuous sash direct to it. This practically preserves the sweep of the eave, which many like.

The other way is to put an ornamental mould-faced gutter at the eave base and hinge the sash to that. In this house we give the curve a wider sweep which gives you a higher side.

We will build your house any of these three ways. But whatever way we do build it, it will be the house of Everlasting Lastingness.

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

SALES OFFICES:

NEW YORK
42nd Street Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Widener Bldg.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

CLEVELAND
Swetland Bldg.

TORONTO, CANADA, Royal Bank Bldg.

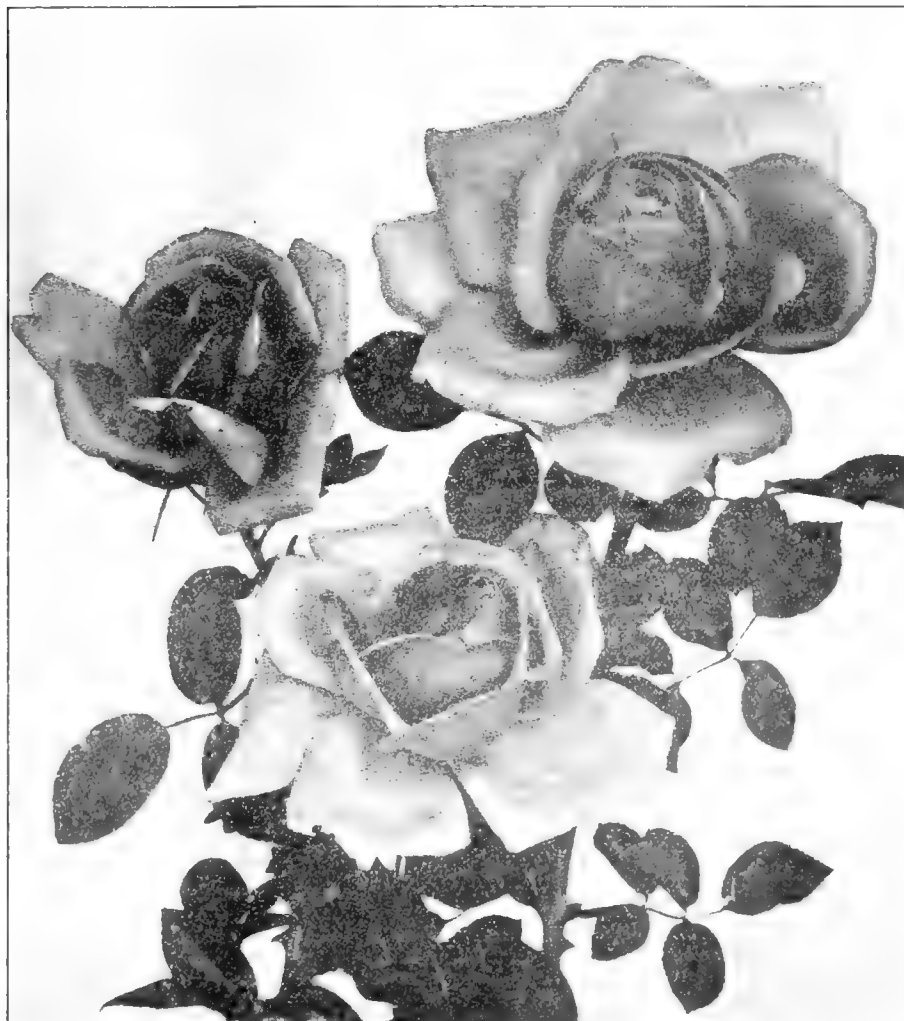
MONTREAL, CANADA, Transportation Bldg.

FACTORIES: Irvington, N. Y. Des Plaines, Ill. St. Catharines, Canada.



Vol. XXIV
No. 25
DEC. 16
1916

HORTICULTURE



New Rose Los Angeles

By Howard & Smith, Los Angeles, Calif.

BAY TREES

A new importation has been received from Belgium in prime condition, as nice a lot of trees as we have ever imported. Prices are slightly advanced over previous seasons, due to higher importation charges. All of these are supplied in the Belgian tubs in which they were imported.

Standard or Tree Shaped Bay Trees

Size of Tubs	Height of Stem	Diameter of Crown	Price Each
8 inch	18 inches	16 inches	\$3.50
12 "	38 to 44 "	18 to 20 "	5.00
12 "	38 to 44 "	20 to 22 "	6.00
12 "	40 to 46 "	20 to 22 "	6.00
12 "	40 to 46 "	24 to 26 "	7.50
15 "	26 to 32 "	24 to 30 "	7.50
18 "	44 to 52 "	30 "	9.00
18 "	46 to 52 "	32 "	12.00
20 "	40 to 48 "	32 to 36 "	18.00

Pyramid Shaped Bay Trees

Size of Tubs	Diameter at Base	Height	Price Each
10 inch	18 inches	3½ to 4½ feet	\$3.50
14 "	18 to 20 "	5 to 5½ "	6.00
14 "	22 to 24 "	5½ to 6 "	7.50
18 "	24 to 26 "	6 to 6½ "	12.00
18 "	28 to 32 "	7½ to 8 "	15.00

HENRY A. DREER

714-716 Chestnut Street - - - - PHILADELPHIA, PA.

THE PRICES QUOTED ABOVE ARE FOR THE TRADE ONLY



JAP LILY BULBS

At Import Prices

GIGANTEUM,	7-9, 8-10, 9-10, 10-11.
MULTIFLORUM,	7-9, 8-10.
AURATUM,	7-9, 9-11.
ALBUM,	9-11.
RUBRUM,	7-9, 8-10, 9-11.
MELPOMENE,	9-11.

Giganteum, 7-9, 8-10 and 9-10 also offered F. O. B. Chicago and London, Ont. Write for prices and details, stating quantity desired.

McHutchison & Co.

THE IMPORT HOUSE

95 Chambers St., New York

The largest collection of up-to-date Xmas stock around New York City can be seen at

A. L. MILLER'S

JAMAICA, N. Y.

ORCHIDS

Francisco Delgado Q.
Orchid Collector

Solicits orders for shipments of Orchids, Prices quoted upon application.

BOGOTA (Chapinero) COLOMBIA

JULIUS ROEHRS CO.

HEADQUARTERS FOR

Choice Flowering and Foliage Plant Stock

FOR IMMEDIATE DELIVERY

We have twelve houses filled with the lovely Mrs. Peterson Begonia, the gem of all Begonias. All sizes from \$6.00 per dozen up to \$4.00 each.

Send for Catalog of Christmas Stock

RUTHERFORD, - - NEW JERSEY

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS. PHILADELPHIA, PA.

CHARLES H. TOTTY

CHRYSANTHEMUMS

MADISON, N. J.

ORCHIDS

We grow and sell nothing but ORCHIDS. If you are in the market for this class of plants we respectfully solicit your inquiries and orders. Special lists on application.

LAGER & HURRELL, Summit, N. J.

A. N. Pierson, Inc.

CROMWELL, CONN.

Bedding Plants and Roses

GERANIUMS

We have the best stock in better condition than we have ever had, and are in a position to take care of your orders in fine shape.

ALPHONSE RICARD, BEAUTE POITEVINE, JEAN VIAUD, EDMOND BLANC and SCARLET BEDDER, \$2.00 per 100, \$20.00 per 1000 for 2-in.; \$3.00 per 100, \$30.00 per 1000 for 3-in.

S. A. NUTT, GENERAL GRANT, MAD. BUCHNER, MAD. RECAMIER, JEAN OBERLE, ABBIE SCHAFER and E. H. TREGO, etc., \$2.00 per 100, \$18.50 per 1000 for 2-in.; \$3.00 per 100, \$18.50 per 1000 for 3-in.

BOSTON FERNS

7-in., \$6.00 per doz.; 8-in., \$1.00 each, \$9.00 per doz. Large Plants, in 11 and 12-in. pots, from \$2.00 to \$5.00 each.

ACALYPHA, \$2.00 per 100, \$20.00 per 1000 for 2-in.; \$3.00 per 100, \$30.00 per 1000 for 3-in.

ASPARAGUS SPRENGERI, \$5.00 per 100 for 3-in.

ALTERNANTHERA, AGERATUM, BEGONIAS, COLEUS, CUPHEA, HARDY ENGLISH IVY, HELIOTROPE, LEMON VERBENAS, LANTANAS, MOONVINES, PARLOR IVY, PETUNIAS, POMPON CHRYSANTHEMUMS, SALVIA BONFIRE and ZURICH, SWAINSONA, white, \$2.00 per 100, \$18.50 per 1000 for 2-in.; \$3.00 per 100, \$30.00 per 1000 for 3-in.

Rooted Cuttings of the following: Coleus, 10 varieties including Golden Bedder and Verschaffeltii; Heliotrope, Chieftain, Ageratum Blue and White, \$0.75 per 100 post paid, \$5.00 per 1000 by express not prepaid.

CASH WITH ORDERS.

R. VINCENT, Jr., & SONS CO.,

WHITE MARSH,
MD.

Order Now

SPRING, 1917, DELIVERY of BOXWOOD, HARDY AZALEAS and RHODODENDRONS, LAURUS Cerasus, Bushes and Pyramids; AUCUBA, small EVERGREENS, CLIMBERS, MAGNOLIA in sorts, etc., etc., all from the

TERRA NOVA NURSERIES, Aalsmeer, Holland

Send for list of cost at foreign nursery, and information on average expenses to lay down, f. o. b. New York. Address the American Representatives:

AUGUST RÖLKER & SONS, 51 BARCLAY STREET, New York
or P. O. BOX 752

LILY BULBS

RALPH M. WARD & CO.
71 MURRAY ST., NEW YORK

When writing to advertisers kindly
mention HORTICULTURE.

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

CHAS. SCHWAKE & CO., Inc.

Valley

GERMAN, SWEDISH
AND DUTCH PIPS

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page	Page
Advance Co.....830	Cohen, Louis.....830	Grey, Thos. J.....811	Landroth Seed Co., D.....810	Pierson, A. N.....802	Smith, W. & T. Nursery Co.....804
Albany Cut Flower Ex.....822	Cooke, Geo. H.....812	Gude Bros. Co.....812	Lange, H. F. A.....813	Pierson, F. R.....804	Smyth, Wm. J.....813
Allen, J. K.....823	Cowee, W. J.....820	Gunther Bros.....823	Lemon Oil Co.....828	Poehlmann Bros. Co.....820	Snyder & Co., B. A.....818
Allen, Wm. Stuart.....823	Craig, Robt. Co.....802	Guttman & Raynor.....809-822	Leonard Seed Co.....811	Quint, Harry.....809	Stump, G. E. M.....812
American Bulb Co.....811	Crawbuck, Geo. W. Co.....823	Hall Association.....830	Lutton Co., W. H.....831	Randall's Flower Shop.....813	Thorburn, J. M. & Co.....811
Anderson, S. A.....813	Danker, F. A.....812	Hammond Paint & Slug Shot Works.....828	McHutchison & Co.....802	Reed & Keller.....820	Totty, Chas. H.....802
Aphine Mfg. Co.....828	Dards.....812	Hart, Geo. B.....822	McManus, Jas.....822	Riedel & Meyer.....822	Traendly & Schenck.....819-822
Arnold, D. C. & Co.....817	Delgado Q. Francisco.....802	Henderson, A. & Co.....811	McConnell, Alex.....812-814	Reid, Edw.....820	United Cut Flower Co.....823
Badgley & Bishop, Inc.....822	Dinda, Frank.....809	Hentz & Nash.....822	Marshall, W. E. Co.....811	Reuters.....813	Valentine, J. A.....814
Barrows & Son.....809	Dorner, F. & Sons Co.....809	Hess & Swoboda.....813	Meconi, Paul.....818-823	Robinson, H. M. & Co.....823	Vanbeerde, L.....804
Bayersdorfer, H. Co.....815	Dreer, H. A.....802-829-830	Hews, A. H. & Co.....829	Metropolitan Material Co.....829-830	Robinson, H. M. Co.....822	Vincent, R., Jr., & Sons Co.....803
Bay State Nurseries.....804	Dunlop, John H.....813	Hill, E. G. Co.....820	Michell, H. F. Co.....810	Rochrs, J. Co.....802	Wants, For Sale.....827
Beechwood Heights Nurseries.....823	Dysart, Robert.....812	Hill, D. Nursery Co.....804	Michigan Cut Flower Ex.....822	Roland, Thomas.....813	Ward, R. M. & Co.....803
Bobbink & Atkins.....804	Eastern Chemical Co.....828	Hitchings & Co.....832	Millang, Chas.....829	Rolker, A. & Sons.....803	Weber, F. C.....813
Boddington, A. T.....810	Edwards Folding Box Co.....820	Holland Nurseries.....804	Miller, A. L.....802	Roper Estate, Albert.....809	Weiss, Herman.....817-823
Bolgiano & Son.....811	Elliott Auction Co.....808	Holm & Olson.....813	Murray, Samuel.....812	Rosery, The.....814	Welch's.....820
Boston Florists' Supply Co.....815	Ernest, W. H.....829	Howard & Smith.....814	Nason, L. B.....823	Royal Glass Co.....830	Welch Bros. Co.....816-820
Breck, J. & Sons.....811	Esler, J. G.....830	Irwin, R. J.....811	National Nurseryman.....804	Seery, Edward.....814	Welch, Patrick.....823
Breitmeyer's, J. Sons.....812	Evans, J. A. Co.....830	Jacobs, S. & Sons.....830	N. E. Florist Supply Co.....821	Schling, Max.....812	Woodrow & Markos.....823
Budlong, J. A.....820	Eyres.....813	Kasting, W. F. Co.....820	Nicotine Mfg. Co.....828	Schwake, Chas. Co.....803	Woodruff, S. D. & Sons.....811
Bunyard, A. T.....812	Farquhar, R. & J. & Co.....811	Keller, J. B. Sons.....814	Niessen, Leo Co.....820	Sharp, Partridge & Co.....830	Yokohama Nursery Co.....809
Burnett Bros.....811	Fenrich, Jos. S.....817	Kelway & Son.....811	Nut Grower.....827	Sheridan, W. F.....822	Young, John & Co.....822
Burpee, W. A. & Co.....811	Foley Mfg. Co.....830	Kerr, the Florist.....813	Ouwerkerk, D.....804	Siebrecht, Geo. C.....822	Young Thomas, Jr.....823
Carter's Tested Seeds, Inc.....810	Ford, W. P.....819-822	Kervan Co.....822	Palmer, W. J. & Son.....813	Siebrecht, W. R.....819-822	Young & Nugent.....812
Childs, John Lewis.....808	Ford, M. C.....817-822	King Construction Co.....829	Park Floral Co.....814	Singers & Singers.....830	Zach & Maub.....820
Clarke's, D. Sons.....812	Fowler Mfg. & Supply Co.....829	Knoble Bros.....813	Parshelsky Bros.....830	Skidelsky, S. S. & Co.....811	Zvolanek, Ant. C.....811
Coan, J. J.....823	Froment, H. E.....822	Koloos, A. & Co.....804	Pennock - Meehan Co.....821	Slim, B. S., Jr.....823	
	Galvin, Thos. F.....813	Kroeschell Bros.....829	Penn the Florist.....812	Smith, Elmer D. & Co.....809	
	Gasser Co., J. M.....813	Kuehler, W. H.....822	Pierce Co., F. O.....830	Smith, P. J.....822	
	Graham, Adam & Son.....813	Lager & Hurrell.....802		Smith & Fitters.....813	

**FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 824, 825, 826, 827**

A. KOLOOS & CO.**WRITE TODAY****WRITE TODAY**

Now is the Time to Order Your Plants and Shrubs to Secure Early Spring Delivery

Such as Azalea, Aucuba, Boxwood, Blue Spruce, Conifers, Clematis, Hydrangea, Lilacs, Laurels, Japanese Maples, Roses, Rhododendrons. American Hardy varieties one of our specialities, and all other Hardy shrubs for forcing or outdoor.

ROSES, Bush, Tree and Climbers in more than 300 sorts, including the leading and new up to date varieties are offered by us.

LET US QUOTE YOU ON YOUR LIST OF WANTS.

Copy Wholesale Catalogue 1917-18 Free on Application from

MR. L. VANHEERDE, c/o Maltus & Ware, 14 Stone St., New York

WRITE TODAY**WRITE TODAY****EXPORT NURSERIES**

LIST OF SURPLUS STOCK AT REDUCED PRICES

DUTCH HYACINTHS**Strictly First Size, or Exhibition, Bulbs:**

600 Gigantea, 250 Koh-i-noor, 550 La Grandesse, 400 General Kohler, 500 Noble par Merite, 2850 Gertrude, 675 L'Innocence, 400 Grand Monarque, 200 Garrick, etc. \$4.50 per 100, \$35.00 per 1,000

Second Size, Named:

650 Grand Maitre, 300 Cardinal Wiseman, 725 Gertrude, 1600 L'Innocence, 950 Gigantea, 950 La Grandesse, 500 Garrick, 500 Noble par Merite, etc. \$3.50 per 100, \$25.00 per 1,000

Third Size, Named:

250 Grand Monarque, 500 Sir Wm. Mansfield, 450 Moreno, 1000 Garrick, 550 La Victoire, 2200 Gertrude, etc. \$2.50 per 100, \$20.00 per 1,000

Separate Colors, Single:

1200 Rose, 2500 Pure White, 1500 Light Blue, 750 Dark Red, 875 Blush White, and 675 Dark Blue. \$2.00 per 100, \$16.00 per 1,000

Miniature, Named:

1200 La Grandesse, 1300 L'Innocence, 1400 Gigantea. \$1.50 per 100, \$12.50 per 1,000

TULIPS**Double Early:**

2000 La Candeur \$8.50
1750 Le Matador 15.00
1000 Murillo 10.00
800 Rubra Maxima 10.00
1500 Salvator Rosa 11.00
1350 Tournesol (Red and Yellow) 16.00
3000 Schoonord (White Murillo) 14.00
6500 Extra Fine Mixed 6.00

Single Early:

2750 Cramoie Brilliant \$8.00
4500 Keizerskroon 12.50
8500 La Reine 7.50
900 Le Matelot 15.00
1100 Pottelbakker (White) 13.50
1250 Prince of Austria 12.00
4250 Rose Grisdelin 6.50
1250 Rose Luisante 13.00
2500 Princess Helena 11.00
1000 Queen of Roses 15.00
8000 Extra Fine Mixed 5.00

Darwin:

750 Mr. Farncombe Sanders \$14.00
1300 Massachusetts 14.00
950 Painted Lady 14.50
2000 Pride of Haarlem 12.00
400 Prof. Francis Darwin 12.50
800 Finest Mixed 7.00

Cottage, or May-Flowering:

950 Caledonia \$9.00
400 Isabella (Blushing Bride) 9.00
1000 Picotee (Maiden's Blush) 16.00
1000 Sweet Nancy 8.00
1000 Finest Mixed 8.00

Parrot:

1000 Admiral of Constantinople \$7.00
750 Lutea Major 7.00
950 Markgraf van Baden 7.00
900 Perfecta 7.00
1300 Finest Mixed 6.00

NARCISSUS

3500 Emperor, double-nosed bulbs. \$17.00
1000 Emperor, first sized bulbs. 12.00
2000 Golden Spur, double-nosed bulbs. 21.00
1200 Princeps, double-nosed bulbs. 9.00
2200 Victoria, double-nosed bulbs. 20.00
3000 Victoria, first sized bulbs. 11.00
1500 Barri Conspicuous 7.00
4000 Poeticus Ornatus, double-nosed 7.50
2500 Poeticus 5.50
4500 Von Sion, double, double-nosed 22.00
3000 Von Sion, Double, first sized. 14.00

FREESIAS

3000 Refracta Alba per 1000 \$8.00

SPIREA

Gladstone case of 100 clumps, \$9.00; \$1.25 per dozen
Queen Alexandra case of 100 clumps, 10.00; 1.50 per dozen

F. R. PIERSON, - Tarrytown, New York

THE National Nurseryman

The oldest and best established journal for nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.50 per year. Foreign subscriptions, \$2.00 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
HATBORO, PA.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St. Woburn Heights, P. O. No. 1, Hoboken N. J.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY. Small, medium and large sizes supplied. Price list now ready.

THE D. HILL NURSERY CO.

Evergreen Specialists. Largest Growers in America.

BOX 418, DUNDEE, ILL.

BOBBINK & ATKINS

Nurserymen, Florists and Planters

RUTHERFORD, NEW JERSEY

When writing to advertisers kindly mention **HORTICULTURE**.

TREES

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties. Sturdy, choice stock that can be depended upon. Send for catalogue and special trade prices.

The Bay State Nurseries

North Abington
Mass.

SHRUBS

This New England climate produces fine hardy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toll, we ought to blame the culture, not the soil."—Pope.

Callas

Don't fail to fumigate about once a week or greenfly and thrips will get ahead of you. Ventilation should be given on all favorable days to avoid a stagnant humidity. In order to bloom well they require a night temperature of from 55 to 60 degrees. When in continuous flower callas eagerly take up large quantities of food from the soil and should have liquid manure regularly once a week and, when spring is nearing, twice a week. Now, under fire heat, water should be used abundantly on the paths and around the house. On all good days give them a syringing after the flowers have been cut. These plants will assure fair returns if grown under anything like fair treatment during the winter and spring. When planted out in beds, in two or three weeks they will stand a mulch of manure.

Easter Lilies

Harrisii or Formosa lilies, if they are just coming through the ground now will be all right, as Easter comes this year on April 8th. Now that the holiday trade leaves some vacant bench space it will be well to bring in some of the lilies intended for the Easter trade. There isn't any reason for using a strong heat at present, at least, for any lilies intended for Easter; 55 degrees will do nicely. Higher temperature will only tend to produce a soft growth. In about three weeks it will be all right to give them 60 degrees. All Easter lilies should have their pots well filled with roots before they are given too much heat. Give a good syringing on all bright mornings. Fumigate for green fly every ten days. In the case of multiflorums and giganteums, if the growths are three to four inches high you are all right. These lilies can be given a house that stands about 60 degrees at night and in about three weeks they can have 65 degrees.

Mignonette

Disbudding once a week improves the flower and stem. Keep them clean by light fumigation. They do not like heat. A temperature from 42 to 45 degrees at night and from 10 to 15 degrees higher with sun will be all right. See that they have proper supports to keep the shoots straight. If there is one thing that is very important in the culture of mignonette it is a fresh and bracing atmosphere. Take advantage of every good day and give ventilation to this crop, but always avoiding chilling drafts. Mignonette likes to be moist at the roots, so look to the watering. Do not keep the house too damp during dull weather as it tends to make a very soft growth. A mulch of half manure and soil about every four weeks will be advisable, but do not put it on any deeper than half an inch. Now is a good time to make a sowing for spring flowering. You can use three-inch pots, planting about four seeds in each pot. Keep shaded until they start to come up, when they should be given a place well up to the glass in a light house.

Orchids

Do not keep the houses too damp during dull and

murky weather, but during bright weather you can damp down two or three times a day. Use any spare time now in changing and sponging the orchids. East Indian family will stand more coddling and thrive, but that does not mean that they do not want ventilation, too. This should be given on all bright days. All such orchids as cattleyas, coelogynes, miltonias, laelias, odontoglossums, etc., love fresh air, so make it a point to give some ventilation every day, even if it is only for an hour. We are now coming into our shorter days, when careful watering counts. To do this work right the grower will have to go over his plants every day and make it a rule to water only as they may individually need it. They will not need any shade now until the middle of February. Look over the crates, baskets and pans and see that there are enough, as the potting season for most orchids will soon be here.

Start Propagating

Be sure that there is enough of bottom heat. This can be increased by boarding in the sides all around which will throw the heat right up to the bottom of the benches. Give the entire surface of sides and bottoms a good whitewashing of hot lime. See that everything is made thoroughly clean by washing down with a strong force of water all benches, walls, etc., It is always better to place about an inch of coarse material on the bottom, which will assure good drainage. You can place some moss on this, and then about three or four inches of clean sharp sand. Spread all over even, press down firm and give a thorough watering. All bedding plants can be put in from now on.

Shamrocks

Mr. John J. M. Farrell,

Dear Sir:

Will you kindly tell me how long it will take shamrock to grow to size for potting in two-inch pots? I have a small house, one side devoted to lettuce, so that the temperature will not be very high. Possibly shamrock will not do well. I will be grateful for any information.

T. M. P.

In answer to the foregoing, it will take from three and one-half to four months to grow good shamrocks from the sowing of the seed until they are salable stock in two-inch pots. They will grow very good in a 50 degrees night temperature, with 10 to 15 degrees higher by day. In order to have them of good size for St. Patrick's Day the seed should be sown any time during November. We sowed ours at the end of November.

Reminders

Give a mulch of well decayed manure to beds of peonies now. It will act as a protection in winter as well as enrich the soil.

Let young cyclamen have all the light possible now. The best place is on a shelf near the glass.

Keep the flower buds constantly picked off ageratum, alternantheras and other bedding plants.

Prepare the ground for next season's sweet peas. Use plenty of good manure and dig deep.

Next Week:—Care of Manure; Gardenias; Giganteum Lilies for Easter; Hydrangeas; Schizanthus; Reminders.

DEC 18 1916

HORTICULTURE

VOL. XXIV DECEMBER 16, 1916 NO. 25

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
147 Summer Street, Boston, Mass.

Telephone, Beach 292.
WM. J. STEWART, Editor and Manager

SUBSCRIPTION RATES:
One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES:
Per inch, 30 inches to page..... \$1.00
Discounts on Contracts for consecutive insertions, as follows:
One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.
Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

	Page
COVER ILLUSTRATION—New Rose Los Angeles.	
NOTES ON CULTURE OF FLORISTS' STOCK—Callas—Easter Lilies—Mignonette—Orchids—Start Propagating—Shamrocks—Reminders— <i>John J. M. Farrell</i>	805
OBITUARY—Jerone Jones, portrait—Edward Manning Bigelow—Frank S. Howard—Herbert W. Johnson—Albert L. Muller—William C. Barry, portrait.....	807
CLUBS AND SOCIETIES—New York Florists' Club—Worcester County Horticultural Society—Meetings Next Week—Florists' Club of Washington.....	808
Pittsburgh Florists' and Gardeners' Club.....	816
Chicago Florists' Club—Connecticut Horticultural Society	817
Westchester and Fairfield Horticultural Society—Chrysanthemum Society of America—Horticultural Society of Western Pennsylvania.....	818
Holyoke and Northampton Florists' and Gardeners' Club	828
SEED TRADE—One Week's Imports—Notes.....	810
OF INTEREST TO RETAIL FLORISTS:	
New Flower Stores.....	812
Flowers by Telegraph.....	813
NEWS ITEMS FROM EVERYWHERE:	
Chicago, Washington, St. Louis, Pittsburgh, Boston	814, 815, 816
FLOWER MARKET REPORTS:	
Boston, Buffalo, Chicago, Cincinnati.....	821
New York, Philadelphia, Pittsburgh.....	823
St. Louis, Washington.....	827
DURING RECESS—Boston Florists' Bowling League	827
MISCELLANEOUS:	
New Corporations	810
Visitors' Register	812
Publications Received	828
Flathead Borers on Forest Trees.....	828
Massachusetts Agricultural College Notes.....	829
Greenhouses Building or Contemplated.....	829

Who is to blame? The uncertainties and perils of sea transportation between European ports and this country are known to all our readers and it could surprise nobody that the azaleas and plants destined for the American trade had a very close call and suffered many grievous delays en route this season. But where can one find words sufficiently strong to condemn the demoralization existing right at home—as for instance the taking of five weeks to get these Belgian shipments to Boston after they had been safely landed in New York? One importer says that the spectacle he saw on the docks at New York was simply sickening. Who is to blame?

Words, words, words

Outside of the Barnum type of showmen, probably the first prize in a test for volubility in the use of grandiloquent adjectives and extravagant descriptive phrases in the conduct of their business would be easily won by the seed and plant catalogue men and novelty introducers. So universal, indeed, has this habit of dealing in the marvelous become that our inflated descriptions are no longer taken seriously. They impress nobody and why continue the absurd practice? We believe the time has now arrived when the dealer with sufficient backbone to eliminate all this superfluous boasting and stick to moderate language in his trade literature will meet with the greater confidence on the part of the buying public.

Is the florist "on his job"

Commenting in approval of our editorial note of last week in reference to certain conditions which appertain in the cut flower industry at the present time a reader of HORTICULTURE writes, "Is the florist on his job?" Our correspondent proceeds to intimate that in his opinion the average retailer, whether a "store florist" or doing business at his greenhouses has yet a long way to go before he shall have attained to that degree of efficiency in the conduct of his business, as a business, which men in other and often less important commercial lines have long since reached. Our friend is perhaps not far astray in his conclusions, especially as to the primitive and inadequate publicity methods in vogue and the faulty financial habits of many of the craft but, however that may be, HORTICULTURE feels pleased whenever its editorial remarks on matters affecting the reputé and welfare of the trade are taken in the spirit in which they are offered and thus accomplish their intended purpose—to set people athinking. That is, after all, a paramount function of the press.

All lining up

The very noticeable tendency in the retail florist trade toward a greater interest in the associated bodies, local and national, is one of the most hopeful signs of the present era in the growth of the florist business. During the thirty years in which the "get-together" spirit has been working so effectively among all other classes in the horticultural world, the retail store florists, with the exception of a comparative few have, until quite recently, maintained a conspicuously indifferent and at times almost repellant attitude. Efforts to interest them in organization aims and induce their participation in club and society activities were signal failures, usually. It is a good thing for the associations that the retail dealers are, at last, disposed to line up and take a part in the excellent work which these institutions are doing and the augmented active membership and larger official responsibility which is thus acquired is certainly a valuable acquisition. On the other hand, the effect of the movement on the retail store element as a whole, especially in the large cities where they are numerous, cannot fail to be salutary and uplifting. We feel that the revival has come to stay and, as thorough believers in the efficiency and progressive influence of class organization, we are more than pleased over the outlook as it now looms up.

Obituary

Jerome Jones.

Jerome Jones, Boston merchant and philanthropist, passed away suddenly at his home in Brookline, Mass., on Wednesday noon, December 13, aged 79 years. Heart failure following an illness with bronchitis was the cause. Mr. Jones was the senior member of the Jones, McDuffee & Stratton Co., dealers in crockery, china and glassware.

To the florist trade Jerome Jones is best known in connection with the chrysanthemum named for his late wife by her father, Henry A. Gane, who raised it as well as several other varieties of note. After the death of



JEROME JONES.

Mr. Gane, Mr. Jones established the Henry A. Gane Memorial Fund in care of the Massachusetts Horticultural Society, the income to be awarded annually for exhibits of the chrysanthemum varieties originating with Mr. Gane.

Edward Manning Bigelow.

"The parks of the city will remain his best monument, because they are a blessing for future generations," said the Rev. Dr. Frank W. Sneed, during the funeral service of Edward Manning Bigelow, "the father of the Pittsburgh parks," last Saturday. "Mr. Bigelow," he continued, "loved Pittsburgh and expressed that love in a practical and invaluable service. He had a vision of the city, which he had the courage to pursue, and in a measure, realize, although often bitterly opposed."

The death of Mr. Bigelow took place the previous Wednesday morning at the Allegheny General Hospital following an operation for cancer of the intestines. For some time he had been a sufferer and ascribed his condition

to the hard work of the State Highway Department.

Mr. Bigelow was born on November 6, 1850, in Pittsburgh, where his entire life was spent and where most of the important municipal improvements stand as his monument. He was president or trustee of many institutions and benefactions. Mr. Bigelow was instrumental in obtaining the gift of Schenley Park from Mrs. Mary Schenley, of London, England, to the city, and it was directly through his efforts that Henry Phipps presented the Phipps Conservatory of Schenley Park. Both Schenley and Highland Parks were laid out during his regime. He leaves his widow and three sisters. The funeral was held at his home on North Highland avenue and the remains were placed in the family vault in the Homewood Cemetery.

Frank S. Howard.

Frank S. Howard, for the last fifteen years private gardener for the Pullman estate, Chicago, passed away suddenly of heart failure, on Friday morning, Dec. 8th, at his home, 1826 Calumet avenue. Mr. Howard was born in Austria, in 1849, and came to this country when twenty years of age. After staying six months in New York he came to Chicago where he spent the remainder of his life, working for J. Y. Scannon several years, then in Washington Park for another term of years, and last at the place in which death found him busy at the work he loved. He leaves a widow, four sons and one daughter. Interment was at Oakwoods, on Sunday, Dec. 10, under Masonic auspices.

Herbert W. Johnson.

Former State Senator Herbert W. Johnson, 66 years old, died at his home in Haddonfield, N. J., on Sunday, December 10, after a long illness from Bright's disease. Mr. Johnson was former head of the firm of Johnson & Stokes, seedsmen, of Philadelphia, which was established about the year 1886 and continued for about 20 years when the partnership was dissolved and Mr. Johnson established the Johnson Seed Co., which continued in business for a number of years. Mr. Johnson filled several offices of public trust from time to time. He is survived by a widow and four children.

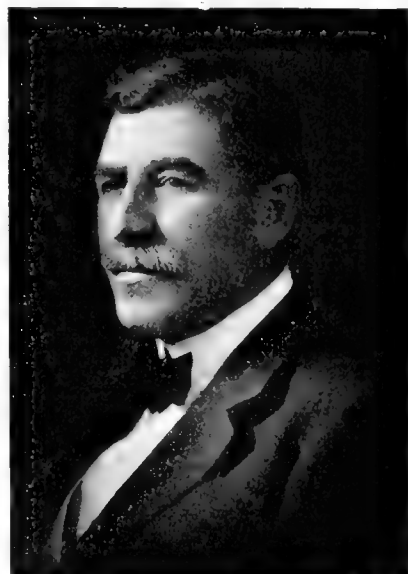
Albert L. Muller.

Albert L. Muller, for several years assistant to Landscape Architect John Nolan, of Cambridge, Mass., was struck by a Chicago & Northwestern train at a grade crossing in Kenosha, Wis., and passed away December 8. Mr. Muller was a native of Jamaica Plain, Mass., and was 26 years of age. Last spring he went to Kenosha as the manager of the Kenosha Homes Co. and had charge of the field work there. Mr. Muller was a graduate of the Massachusetts Agricultural College and

for a time was Professor Waugh's assistant in the department of landscape gardening and horticulture.

William C. Barry.

We are grieved to learn of the death of W. C. Barry of the nursery firm of Ellwanger & Barry, Rochester, N. Y. Mr. Barry passed away on Tuesday, December 12, after a brief illness with pneumonia. In nursery and pomological circles Mr. Barry was a shining light. He succeeded his father, the late Patrick Barry as president of the Western New York Horticultural Society in the year 1890 after having served as vice-president for seven years and has been continuously its presiding officer ever since. In the financial life of Rochester Mr. Barry was a large participant and his loss will be felt in the city's affairs. Personally he was a most agreeable and



WILLIAM C. BARRY.

companionable gentleman whom to know was to love. In years past he wrote several books and many magazine articles on horticulture and pomological topics.

The annual meeting and Vegetable Show of the Pennsylvania Vegetable Growers' Association will be held at Harrisburg, Pa., January 23, 24 and 25, 1917. The program will consist of four sessions led by growers and specialists. It is probable that there will be one session on each of the following subjects: Greenhouse Problems, Pests of Vegetable Crops and Latest Methods of Control, Economic Production and Marketing. An interesting and profitable time is assured. The State Horticultural Association meets at same time and place, as well as the State Board of Agriculture, Pennsylvania Breeders' Association and other state agricultural organizations. Association officers for 1916 are president, S. Herbert Starkey, Bustleton, Pa.; vice-president, W. H. Weinschenck, New Castle, Pa.; secretary, J. R. Bechtel, State College, Pa.; treasurer, H. W. Pierce, Wilkes Barre, Pa.

CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

One of the biggest meetings in the Club's history took place last Monday evening when the election of officers to serve for the important year 1917 was in order. The club room was packed with members. Four new ones were admitted. Routine matters were quickly pushed through and the big business of the evening began with the appointment of Jos. Manda and Chas. Knight as tellers and W. F. Sheridan as judge. The election of president was the main issue and the withdrawal of three names out of the five on the ballot left the contest between Chas. Schenck and G. E. M. Stumpp. During the balloting and counting of votes a social hour was enjoyed in the ante-room. The result of the voting was declared as follows: President—Schenck 84, Stumpp 98; vice-president—J. H. Fiesser 85, P. W. Popp 83; secretary, John Young, and treasurer, W. C. Rickards, re-elected unanimously; trustees—R. J. Irwin, John Canning, A. Kottmiller. On motion of Mr. Schenck and Mr. Popp, respectively, the election of President Stumpp and Vice-President Fiesser were made unanimous. Then followed brief speeches by all the successful candidates. A vote was recorded authorizing Secretary Young to recognize the president-elect as the representative of the New York Florists' Club on the executive board of the Society of American Florists. Letters of sympathy were ordered sent to W. H. Long and P. L. Bogart, two members who are seriously ill.

The following exhibits were on the tables. Chrysanthemum Arawana from E. G. Hill, scored 88 points. Chrysanthemum Hamburg Late White from W. F. Kasting Co.; Cromwell Gardens—carnations Nancy and Nebraska; R. J. Irwin—seedling anemone chrysanthemum; Charles Tricker—winter flowering begonias Eclipse and Pink Perfection; A. Demeusy—sport from Enchantress carnation; Badgley & Bishop—roses Little Gem and No. 108.

WORCESTER COUNTY HORTICULTURAL SOCIETY.

The annual meeting of the Worcester County (Mass.) Horticultural Society was held December 6, and Arthur E. Hartshorn was elected president for a second term. Other officers chosen were vice-presidents Charles Greenwood, Leonard C. Midgley and Frederick H. Chamberlain; secretary, Herbert R. Kinney; librarian, Lucy M. Coulson; treasurer, Burt W. Greenwood. The Hadwen medals bought by an appropriation from the fund established by the late Obadiah B. Hadwen, and designed by Albert H. Lange, were awarded Miss Lucy M. Coulson on tuberous-rooted begonias; Irithorpe, the summer home of Dr. and Mrs. Homer Gage, and A. N. Nickerson, Pomfret, Ct. Two medals, one for

Meetings Next Week

Monday, Dec. 18.

Detroit Florists' Club, Bemb Floral Hall, Detroit, Mich.
Houston Florists' Club, Chamber of Commerce Rooms, Houston, Tex.
New Jersey Floricultural Society, Orange, N. J.

Tuesday, Dec. 19.

Gardeners' and Florists' Club of Boston, Horticultural Hall, Boston, Mass.
Gardeners' and Florists' Club of Ontario, St. George's Hall, Toronto, Can.
Minnesota State Florists' Association, Minneapolis, Minn.
Pennsylvania Horticultural Society, Horticultural Hall, Philadelphia, Pa.

Wednesday, Dec. 20.

Rhode Island Horticultural Society, Public Library, Providence, R. I.
Tarrytown Horticultural Society, Tarrytown, N. Y.

Thursday, Dec. 21.

Essex County Florists' Club, Kreuger-Auditorium, Newark, N. J.
New Orleans County Horticultural Society, Association of Commerce Bldg., New Orleans, La.
North Westchester County Horticultural Society, Mt. Kisco, N. Y.
Tacoma Florists' Association, Macabee Hall, Tacoma, Wash.

Friday, Dec. 22.

Connecticut Horticultural Society, County Bldg., Hartford, Conn.
Monmouth County Horticultural Society, Red Bank, N. J.
Pasadena Horticultural Society, Pasadena, Calif.
People's Park Cottage Gardeners' Association, Paterson, N. J.

Saturday, Dec. 23.

Dobb's Ferry Gardeners' Association, Dobb's Ferry, N. Y.

German iris, and another for Japanese iris, went to Irithorpe.

FLORISTS' CLUB OF WASHINGTON.

The December meeting of the Florists' Club of Washington, D. C., was devoted largely to a discussion of the grading of flowers and the grading of prices in the same connection. L. J. Reed, a representative of the Agricultural Department, a former grower of the middle West, gave a talk on the standardization of vegetable packing, and of how this to some extent could be applied to the florists' business.

An opposite view was taken by Adolph Gude, who pointed out that it would be impossible to observe such standards of grade because of the widely variant qualities of the products of the different growers.

The standardization of price according to Mr. Gude would also be a practical impossibility

GLADIOLI
New Catalogue Ready
JOHN LEWIS CHILDS, Inc.
FLOWERFIELD, L. I., N. Y.



Can You Beat It

TULIPS

	SINGLE EARLY	Per 100
2500 Artus. Scarlet.....		\$0.40
2000 Cardinal's Hat. Deep crimson....		.40
1500 Bouton d'Or. Yellow.....		.40
1000 King of Yellows. Large, yellow....		.40
1500 Fred. Moore. Red.....		.40
5000 Extra Fine Mixed. Single Tulips....		.40
1300 Yellow Prince. Yellow.....		.40
850 Gold Finch. Yellow.....		.40
1400 Chrysolora. Yellow.....		.40
900 Cottage Maid. Rose and white....		.40
2000 Crimson King. Crimson.....		.40
1200 Rose Grisdell. Rose.....		.40
1200 Rosa Mundi. White, tipped rose....		.40
1000 Duc Van Thol. Scarlet.....		.40
1000 Joost Van Vandel. White.....		.40
1000 Rose Gris de Lin. Rose.....		.40
500 Princess Marianne. White.....		.40
1500 Thomas Moore. Orange.....		.40
500 Duc Van Thol. Rose.....		.40
1000 Red Crown.....		.40
1000 Yellow Crown.....		.40
1000 Coleur Pomcean.....		.40
1000 Purple Crown.....		.40
5000 Single Early Mixed.....		.40

DARWIN TULIPS

2000 Gretchen. Salmon rose.....	.50
1000 Lauretea. Rose.....	.50
2000 Mme. Cleveland. Deep scarlet....	.50
1400 Gustav Dore. Brilliant red.....	.50
1500 Nora Ware. Lilac.....	.50
2300 Van Seellen. Crimson violet.....	.50
1000 Gen. Hayden. Orange yellow....	.50
1500 Red Crown.....	.50
1000 Curot. Lilac.....	.50
1000 Flamhol. Scarlet.....	.50
500 Wm. Copeland. Lilac.....	.50
500 Circe. Cerise.....	.50
1000 Pallas Pink. Lilac.....	.50
1000 Baron de la Tonnaye. Clear pink	.50
1000 Emma Sweet. Lilac white center.	.50
1000 Phyllis. Light pink.....	.50
1000 Nymph. White.....	.50
500 Parisienne. Lilac.....	.50
500 Prof. Donders. Dark brown....	.50
1800 Finest Mixed Darwins.....	.50

NARCISSUS

6000 Victoria. Yellow white trumpet.	.40
*5000 Golden Spur. Large yellow....	.40
4000 Sir Watkin. Sulphur yellow....	.40
2000 Barri Conspicuous. Orange scarlet	.40
5000 Silver Phoenix. Pure white....	.40
1500 Orange Phoenix. Sulphur white....	.40
2500 Ajax Princeps.....	.40
8000 Poeticus Ornatus. Pure white....	.40
1500 Emperor (1st size). Golden yellow	.40
500 Alba Plena Odorata.....	.40
1400 Trumpet Maxima.....	.40
1600 Obrallaris.....	.40
*8000 Mixed, All Colors.....	.40

IRIS

*15,000 English Iris, Mixed.....	.20
*15,000 Spanish Iris, Mixed.....	.20

CROCUS

*Yellow and Mixed.....	.20
------------------------	-----

Elliott Auction Company

42 Vesey Street, New York City

New Carnation---ALBERT ROPER

This Splendid Production of the Late Albert Roper, previously known as No. 360, will be disseminated the coming winter. Color cerise; flower medium size: a very free rooster; long stiff stem; healthy good bloomer and free from splitting: "A real bread-and-butter Carnation," says William Nicholson.

Winner of the Silver Medal at the Boston Spring Show, 1916

ROOTED CUTTINGS \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rate

Orders taken now will be filled in rotation

ALBERT ROPER ESTATE,

TEWKSBURY
MASS.

MARK ROPER, Administrator

CHRISTMAS PLANTS

AZALEAS, PRIMROSES, CYCLAMEN,
ALL SIZES

Especially fine BEGONIAS Cincinnati, Peterson, Melior and Mrs. Heal

ALL SIZES

FERN DISHES AND COMBINATION PANS

Also PRIMULA Malacoides Rosea, the new dwarf sort

A. M. DAVENPORT, Watertown, Mass.

CARNATIONS

Field Grown

ENCHANTRESS SUPREME, EUREKA
WHITE WONDER, PINK DELIGHT,
\$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL,
MATCHLESS.
\$7.00 per 100; \$55.00 per 1000.

LADY NORTHCLIFF, PINK WINSOR,
WHITE WINSOR.
\$6.00 per 100; \$50.00 per 1000.

**WOOD BROS., FISHKILL,
N. Y.**

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

WHITMANII IMPROVED—\$5 per 100, \$40
per 1000.

WHITMANII COMPACTA—\$5 per 100, \$40
per 1000.

ROOSEVELTS—\$5 per 100, \$40 per 1000.

BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

CHRYSANTHEMUM ALEX. GUTTMAN

The best Early Lavender-Pink in the Market. Blooms have been selling for \$8.00 per dozen since middle of September. Stock Plants, 75c. each, \$7.50 per doz.

GUTTMAN & RAYNOR, INC.

Wholesale Florists

101 West 28th St., New York, or FRANK
DINDA, Farmingdale, N. Y.

CHRYSANTHEMUMS

NEW FOR 1917

SMITH'S IMPERIAL
OCTOBER HERALD
YONDOTA

HELEN LEE
DECEMBER QUEEN

NEW POMPON
LITTLE GEM

ANEMONE
THE CREST

Also all the best varieties now in commerce.

Ask for preliminary list.

**ELMER D. SMITH & CO., ADRIAN
MICH.**

SUPERIOR QUALITY PAPER WHITE NARCISSUS

Imported by us for own exclusive retail trade

A few more cases to offer, 1000 first class bulbs in each case, **\$10.00 per case**

Cash only

HARRY QUINT, Florist,

520 Boylston Street
cor. Clarendon Street

BOSTON, MASS.

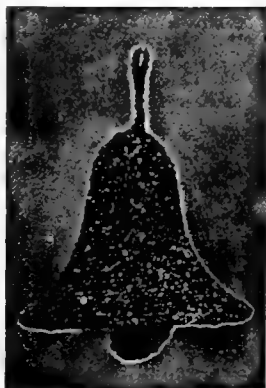
LILIUM GIGANTEUMS, 7-9 in. and 9-10 in.

For Immediate Delivery. Write for Prices

THE YOKOHAMA NURSERY CO., Ltd.

Woolworth Building, - NEW YORK

MICHELL'S CHRISTMAS GREENS



HOLLY (Loose)	
Extra Selected Quality	
Per full case	\$5.00
Per 5 cases	22.50
Per 10 cases	42.50
Selected Quality	
Per 1/2 case	\$2.00
Per 1/4 case	3.00
Per full case	4.25
Per 5 cases	18.75
Per 10 cases	35.00
HOLLY WREATHS	
50 100	
Extra Fine.....	\$5.75 \$11.50
Michell's Special.....	6.25 12.50
Michell's Extra	
Special	7.75 15.50
LAUREL WREATHING	
25-yard lots.....	6 1/2 c. per yard
100-yard lots.....	6 c. per yard
1000-yard lots.....	5 1/2 c. per yard

LYCOPODIUM (Ground Pine)	
Loose for Making Up	
5 lb. lot, \$0.60	50 lb. lot, \$4.75
10 lb. lot, 1.10	100 lb. lot, 9.00
LYCOPODIUM WREATHING	
10 yards	\$0.70
100 yards	6.30
LYCOPODIUM WREATHS	
12 inch, each	\$0.30
12 inch, per doz.	3.50
CUT BOXWOOD	
Fresh, 50 lb. box.....	\$8.00
NATIVE MISTLETOE	
1/4 case	\$3.00
1/2 case	5.50
Full case (16 cubic feet) ..	10.00

MEXICAN MISTLETOE	
50c. per lb.; box of 25 lbs., at 40c. per lb.	
MOSS (Green Lump)	
Extra Fine, per bbl. bag..	\$1.35
SHEET MOSS	
Extra Fancy, per bale....	\$2.00
SPHAGNUM (Dry)	
Per bbl. bale	\$0.60
Per 5 bbl. bale	2.00
Per five 5 bbl. bales.....	9.00

P. S.—New customers who may not be rated in Dun's or Bradstreet's will kindly send money order or trade references with order to avoid delays in shipment of Christmas Greens.

HENRY F. MICHELL CO., 518 Market Street, Philadelphia

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending Dec. 1st, were recorded as follows:

Bulbs—Netherlands, \$6,926; England, \$22; Scotland, \$76; Japan, \$3,982. Plants—Belgium, \$62,479; France, \$684; Netherlands, \$8,674; England, \$362; Scotland, \$89; Colombia, \$129. Clover seed—France, \$5,500. Grass seed—France, \$3,269; Spain, \$770; England, \$7,367; Scotland, \$4,203. Other seeds—Italy, \$67; Cypress Island, \$1,739; Netherlands, \$920; England, \$2,076; Hongkong, \$27. Nitrate of soda—Chile, \$151,066.

Notes.

During the fiscal year ended June 30, 1916, the Department of Agriculture purchased for the 1915-16 congressional seed distribution, 907,417 1/2 pounds of vegetable seeds at a cost of \$98,528.57; 44,859 pounds of vegetable seeds at a cost of \$19,528.85, and 15,606 pounds of lawn grass seeds at \$2,137.66. This information is contained in a statement showing the kind of seed purchased, the quantity and cost thereof, the date of purchase and the country of origin.

One of the provisions of the post office appropriation bill which the House committee on post offices and post roads will soon present to Congress provides that catalogues shall hereafter take third-class rates, instead of being allowed to go as parcel post packages. This will mean an increase of from 2 to 8 cents a pound on these books. This legislation, proposed by Representative Steenerson, is aimed at the large mail order houses, but it will affect all firms sending out bulky catalogues. In this same bill there is a provision looking to the establish-

ment of a 1-cent postage rate on first-class matter when intended for delivery in the same delivery district in which posted. This will cover all city drop letters and those intended for delivery within the limits of city or rural delivery districts.

NEW CORPORATIONS.

Lewiston, Me.—Maine Bulb and Flower Growers, capital stock, \$25,000. Incorporators, Geo. A. Whitney, Willard A. Noyes and Albert L. Kavanaugh.

Newark, N. J.—Connelly & Plunkett, florists, 20 Belmont avenue; capital stock, \$3,000. Incorporators, John J.

and Wm. J. Connelly and James J. Plunkett.

New Canaan, Ct.—S. B. Hoyt, Inc., to deal in seeds, plants, etc., capital stock, \$20,000. Incorporators, Stephen B. Hoyt, Anna R. Hoyt and John McCauley.

New York, N. Y.—W. E. Marshall & Co., 166 West 23d street, florists and seedsmen, capital stock, \$50,000. Incorporators, S. H. Whitefield, A. E. Wheeler and W. E. Marshall.

Providence, R. I.—The Providence Seed Co. and W. E. Barrett & Co. have consolidated and will do business at Waterman and Canal streets.

SHAMROCK TRUE IRISH

Trade packet 25 cts., oz. \$1, 1/4 lb. \$3, lb. \$10

5% Discount, Cash with Order.

ARTHUR T. BODDINGTON CO., Inc.
128 Chambers Street, New York

SCARLET SAGE

We have harvested this Autumn a satisfactory crop of

SCARLET SAGE SEED

And offer of our own growing on Bloomsdale Farms

BONFIRE or CLARA BEDMAN.....at \$18.00 per pound

This Sage is fine strain and worth the price we ask. Terms:—Net 60 days, 2 1/2 per cent. off 10, f. o. b. Bristol, Pa.

D. Landreth Seed Company **BRISTOL, PA.**

Bloomsdale Seed Farms, Established 1784.

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

SPECIAL OFFER

Japanese Lilies

Longiflorum Giganteum (BLACK STEM)

7 to 9 inch	.....\$30.00 per 1000
All 8 " selected	..... 35.00 " "
All 10 " " "	..... 75.00 " "
All 12 " " "	..... 90.00 " "

ALL SELECTED BULBS OF
BLACK STEM

Lilium Formosum

9 to 10 inch	.....\$80.00 per 1000
7 to 9 " " "	..... 51.00 " "

Also Selected High Grade Bulbs.

Lilium Multiflorum

7 to 9 inch	.....\$44.00 per 1000
9 to 10 " " "	..... 71.00 " "
10 to 11 " " "	..... 96.00 " "

J. M. THORBURN & CO.

53 Barclay Street
NEW YORK CITY

SOW EARLY

SWEET PEAS

	Lb.	1/4 Lb.	Oz.
White Spencer	\$3.00	\$1.00	\$.30
Countess of Spencer	2.75	.75	.20
Maud Holmes	2.75	.75	.25
Asta Ohn Spencer	3.00	.85	.25
Clara Curtis	2.50	.75	.20
Hercules		1.25	.40

VERBENAS

Farquhar's Giant Blue
Farquhar's Giant White
Farquhar's Giant Scarlet
Farquhar's Mammoth Hybrid
Mixed
All the above, 1/4 oz. \$0.40; 1/8 oz. \$0.25

MIGNONETTE

Farquhar's Universal, 1-4 oz.,
\$3.75; 1-8 oz., \$2.00; 1-16
oz., \$1.00.

VINCAS

Bright Rose, Pure White
White with Rose Eye
All the above, oz. \$1.00; 1/4 oz. \$0.30

Wholesale Catalogue Mailed on Application

R. & J. FARQUHAR & CO. BOSTON MASS.

KELWAY & SON

SPECIALIZE IN

SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or
Forward

Only Address, LANGPORT, Eng

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter flowering Pink Snapdragon on
the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.
PHILADELPHIA, PA.

My new Price List of
WINTER-ORCHID-FLOWERING SWEET
PEA SEED

Has been mailed. If you have not received
a copy, send me postal. Part of new crop
will be ready early in July.

ANT. C. ZVOLANEK
Sweet Pea Ranch Lompoc, Cal.

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

ROMAN J. IRWIN

108 West 28th St., NEW YORK

SPECIAL OFFER

LILIUM FORMOSUM

8/11, 225 to a case	.....\$80.00 per 1000
9/10, 200 to a case	..... 85.00 per 1000
11/13, 100 to a case	..... 15.00 per case
LILIUM FORMOSUM—Black Stem	
8/10, 200 to a case	.....\$80.00 per 1000
9/10, 180 to a case	..... 90.00 per 1000
11/13, 100 to a case	..... 16.00 per case

See Classified List for Seasonable Plants,
Rooted Cuttings, Seeds and Bulbs.
Write for Complete Stock Circular.
SATISFACTION GUARANTEED.

THOMAS J. GREY COMPANY

SEEDS, BULBS AND IMPLEMENTS
WHOLESALE AND RETAIL.

Reselected Strains in Seeds.
Improved styles in Implements.
Catalogue upon application.

29 So. Market Street
BOSTON, MASS

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

SEEDS, BULBS, PLANTS

AND

Florists' Necessities

AMERICAN BULB CO.

172 N. Wabash Ave., Chicago, Ill.

LILIUM FORMOSUM LILIUM HARRISII LILIUM GIGANTEUM

Prices on Application. Write for 1916
Bulb Catalog.

JOSEPH BRECK & SONS' CORP.
47-54 North Market St., Boston, Mass.

W. E. MARSHALL & CO.

SEEDS, PLANTS AND BULBS

Horticultural Sundries

166 W. 23rd St., NEW YORK

GARDEN SEED

BET, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
be quoted you upon application to

S. D. WOODRUFF & SONS
82 Day St., NEW YORK and ORANGE, CONN.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

Penn
The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.
BOSTON

FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

MAX SCHLING

22 West 59th St.

Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York
Telephone 1889-1888 Columbus

Of Interest to Retail Florists

NEW FLOWER STORES.

Milwaukee, Wis.—Alpha Floral Co.

Brighton, Cal.—Brighton Floral Co.

Washington, Ia.—Mrs. E. M. Wilson.

San Francisco, Cal.—Adolph Winters.

Chicago, Ill.—S. Fisher, 3640 W. 12th street.

Elwood, Ind.—F. W. Blubaugh, Milligan Block.

Lynn, Mass.—F. Southworth, 20 Monroe street.

Clinton, Mass.—Pease Floral Co., Associates Block.

Chicago, Ill.—Bruce Flower Shop, 6906 Stony Island avenue.

New York, N. Y.—C. Sarris, 3544 Broadway. Daniels & Markellos, 728 Madison avenue. Peter Papagianis, 2578 Broadway.

VISITORS' REGISTER

Albany, N. Y.—Patrick Welch, Boston.

Baltimore, Md.—J. K. M. L. Farquhar, Boston.

New York — Wm. R. Nicholson, Framingham, Mass.; E. Allan Pierce, Waltham, Mass.; J. K. M. L. Farquhar and Wm. J. Stewart, Boston; Louis J. Reuter, Westerly, R. I.

Cincinnati, O.—I. Bayersdorfer, of H. Bayersdorfer & Co., Phila.; Julius Dillhoff, New York, N. Y.; Mrs. J. J. Lampert, Xenia, O.; Mr. and Mrs. L. F. Benson, Indianapolis, Ind.; O. W. Kiefaber, Miami Floral Co., Dayton, Ohio; C. P. Brunner, Springfield, Ohio; Wm. Gardner and Jos. Hill, Richmond, Ind.

Washington — James L. Vorhees, Syracuse, N. Y.; J. F. Mulrain, Rhinebeck, N. Y.; Charles Schwake, New York, N. Y.; George W. Evenden, Williamsport, Pa.; Charles E. Meehan, Phila.; C. Albert Small, New York; J. Warren Manning, Boston; J. Lookie Wilson, Toronto, Ont.; Oscar Haase, New York, N. Y.

Chicago — A. R. King, Winnipeg, Man.; Ernest F. Hoebl, repr. S. S. Skidelsky & Co., Phila.; Thos. Heaven, Benton Harbor, Mich.; Fred Schmidt, Joliet, Ill.; K. G. Drayton, Terre Haute, Ind.; J. S. Bennett, Pau Pau, Ill.; A. E. Anderson, Cameron Falls, Minn.; Harry Saier, Lansing, Mich.; Mrs. J. E. Lord, Topeka, Kas.; A. F. J. Baur, Indianapolis, Ind.; Gus Pappas, Des Moines, Ia.

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. - - - - BOSTON
Telephone Main 28.

**JOHN BREITMEYER'S
SONS**

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE

National Capital

At your service to deliver Flowers or Designs on Order by Telegraph or otherwise. Prompt Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

DANKER
ALBANY, N. Y.

ALBANY

TROY

SCHENECTADY

RENSSELAER

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

A. T. BUNYARD
NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction

MEMBER F. T. D. A.

CHICAGO

Send Your Orders to

WILLIAM J. SMYTHMember Florists' Telegraph
Delivery Association**Michigan Ave. at 31st Street**Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Points

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1896 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST

THOMAS ROLAND. Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Member Florists' Telegraph Delivery Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE125,000 Sq. Ft. of Glass
WORCESTER, MASS.**Flowers by Telegraph**

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—F. A. Danker, 40 Maiden Lane.

Albany, N. Y.—H. G. Eyres, 106 State St.

Albany, N. Y.—The Rosery, 23 Steuben St.

Albany, N. Y.—William C. Gloeckner, 97 State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont St.

Buffalo, N. Y.—S. A. Anderson, 440 Main St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid Ave.

Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th St.

Cleveland, O.—The Smith & Feters Co., 735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643 Broadway.

Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.

Los Angeles, Calif.—Howard & Smith, 853 So. Olive St.

New London, Conn.—Reuter's.

New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.

New York—David Clarke's Sons, 2139-2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison Ave., at 48th St.

New York—Darda, N. E. corner 44th St. and Madison Ave.

New York—Max Schilling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth Ave.

New York—Thos. F. Galvin, Fifth Ave., at 46th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.

Washington, D. C.—Gude Bros., 1214 F St.

Washington, D. C.—F. H. Kramer, 915 F St., N. W.

Washington, D. C.—George H. Cooke, Connecticut Ave. and I. St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop

3 Pleasant St.

REUTER'S Members Florists
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between

New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only
THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.
ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

Roses—Violets—Orchids
Wedding and Reception Decorations

ALEXANDER McCONNELL
Florist

Woodside Nurseries
New Rochelle

611 Fifth Avenue Corner 49th Street
NEW YORK

News Items from
Everywhere

CHICAGO.

Andrew J. Cronis has the sympathy of the trade in the loss of a son 14 months old. The little one had been ill for half of its short life.

Some familiar faces are noticed in new places this week. Fred Ottenbacher is seen at the Chicago Flower Growers' Association and Jack Byers now is found at Zech & Mann's.

Another firm to seek larger quarters is Joseph Ziska & Sons, who will occupy the second floor at 169 N. Wabash avenue. For many years this firm has been leaders in the manufacture of wire work for florists and has added other supplies as the business grew. As they became old enough Mr. Ziska took his other sons into business with him.

The supply of Christmas plants will be greatly reduced this year. Of azaleas many growers have none at all, and all have less than usual. Poinsettias will also be in smaller supply, mainly owing to the extremely hot summer which made it impossible to propagate the necessary stock. Cyclamen, on the contrary, will be a little ahead of the normal both in quantity and quality, some magnificent specimens being offered, but these are not enough to offset the shortage in

azaleas and poinsettias. For low-priced plants, primulas Chinese and obconica, will be much in evidence and a fair quantity of Christmas peppers and Jerusalem cherries, but hardly up to the usual quality. Acubas, ericas and ardisias are limited in supply. A few car loads of azaleas came in at the proper season but the great bulk

of the importations came about the middle of November in a damaged condition, owing to the cold weather at that time. Thirteen car loads arrived here during the past week, many of them worthless either from freezing or delay. White and the pink poinsettias are among the Christmas novelties.

For Christmas Delivery
In Paterson and Passaic, N. J.

SEND TO

MEMBER
F. T. D.

EDWARD SCEERY

NATIONAL
FLORIST

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

Rochester, N. Y.

J. B. KELLER SONS,
FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2780
 Members Florists' Telegraph Delivery

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO

Send Telegraph, Telephone or Mail orders
for florist service in this vicinity to

Howard & Smith
 853 SO. OLIVE ST.
Los Angeles, Calif.

Every Order sure to receive
prompt and careful attention.

ALWAYS LEADERS!

When you buy Bayersdorfer & Co. goods you get the best in the world.

BUY YOUR FALL SUPPLIES NOW

BASKETS BASKETS BASKETS

Chrysanthemum Baskets in Japanese novelty tints.

RED—RED—RED—specialties for Christmas.

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Wampers and Flower Bowls.

Stock up now and have the goods to show customers. Send for prices and see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

WASHINGTON, D. C.

The Rose Society of Brookland, D. C., celebrated the fifth anniversary of its founding last Saturday evening by a reception and supper, preceded by a literary program. Prof. Mulford of the Dept. of Agriculture spoke on the rose garden at Arlington, Va.

More than three thousand persons attended the poinsettia show at the Botanic Garden on the day of its opening. This is the first poinsettia show ever held here. It was a record day for attendance at the Botanic Garden, and Supt. Hess received many compliments on the excellence of the blooms.

J. H. Small & Sons furnished the decorations at the New Willard Hotel for the annual banquet of the Gridiron Club, held last week. Large quantities of American Beauty and other roses, carnations and chrysanthemums were used, and the decorations were declared to have been among the finest seen in this city.

Shipments of Christmas greens on the river line steamers are beginning to get very heavy and the boats now arriving have decks piled high with crates and boxes of this material. There is not as much holly to be found along the Potomac this year as in the past few years, although it is said to be fairly plentiful. Mistletoe, however, is reported very scarce.

A bill has been introduced into the House to secure the establishment at or near Colquitt, Georgia, of an experiment station for the purpose of demonstrating the character of plants, fruit and ornamental trees, vegetables, etc., best adapted to the soil and climate of that section. The bill proposes an appropriation of \$25,000 for this purpose, under the direction of the Secretary of Agriculture.

The high cost of coal and the difficulties experienced in obtaining necessary supplies, two matters which have been instrumental in driving a large number of small florists out of business, and the high cost and scarcity of paper of various kinds, will be made the subjects of investigation by

the Attorney General if the resolution introduced by Representative Adolph J. Sabath is adopted. The magnitude of the proposed investigation can well be realized when it is shown that Mr. Sabath suggests an appropriation of \$250,000 for that purpose.

ST. LOUIS.

The florists' dance on Dec. 6th was a great success and a very enjoyable time was had.

The monthly meeting of the St. Louis Florists' Club was held on Thursday, December 14th.

Saturday, Dec. 9th, saw the opening of the Blossom Shop by Miss Nellie C. McClure and Ivar Ericson, formerly with Grimm & Gorley, at 4110 Manchester avenue.

PITTSBURGH

Henry Manke, who has been in the employe of the Zieger Company, for the past two years, is now with the recently organized "Liberty Florists."

William Cooper succeeds John Yeaman in the bookkeeping department of G. P. Weaklin & Company. Mr. Yeaman, who has been a sufferer from pleurisy for some time past, will leave a little later to locate in the far west.

Thomas Edward Tyler has been seriously ill for the past two weeks. Owing to this fact, David Fraser, of the H. C. Frick estate, arranged the beautiful display in the orchid houses of Charles Dickey Armstrong for the meeting of the Garden Club of Allegheny County last Friday.

Save from 25 to 30% on CYCAS

Size	1000	Size	1000
8 x 12	\$15.00	28 x 32	\$37.00
12 x 16	18.00	32 x 36	46.00
16 x 20	21.00	36 x 40	55.00
20 x 24	25.00	40 x 44	63.00
24 x 28	30.00	44 x 48	70.00

Baskets

TUMBLERS
PRINCESS (9 sizes)
POT BASKETS (5 sizes)
VASES
WINDOW BOXES
FANCY BASKETS, etc.

Wax Goods

ROSES, large size.....1000
ROSES, small size.....8.00
CARNATIONS, large size.....15.00
SWEET PEAS.....4.00
CROSSES......50c. up
CRESCENTS......50c. up
HEARTS......50c. up
WREATHS, etc......50c. up

OUR GUARANTEE:

If goods are not to your liking, return them at our expense.
We manufacture everything right in our own factory at 347-357 Cambridge St., so when you buy from us, you buy direct from the manufacturer, saving from 25c. to 33c. on every dollar. Inquiries gladly answered.

Boston Florists' Supply Co., Manufacturers of
Cycas Leaves, Baskets,
Wax Flowers and Designs
Unknown customers
please give reference
or cash with order. **347-357 Cambridge St., Boston, Mass.**

FOR CHRISTMAS SHIPPING

We will have a large supply of the following Roses: Ophelia, Black Beauty, Russell, Hadley, Hoosier Beauty, Killarney, Double White Killarney, Killarney Brilliant, Maryland, Stanley. In Carnations: Benora, Matchless, Alice, Enchantress Supreme and others. Select Valley, Beauties, Orchids. Gardenias, Violets, Sweet Peas, etc. We will also have an ample supply of the best hardy greens to be obtained including

**Fine Boxwood, Green and Bronze Galax,
Hardy and Fancy Ferns, Laurel Festoon-
ing in bunches and Wreaths.**

Be sure and get a copy of our Price List before ordering elsewhere

WELCH BROS. CO.

Both Phones, Main 6267-6268

262B Devonshire St., BOSTON, MASS

BOSTON

Adolph Blume, a former New York and Chicago florist, is now with the H. M. Robinson Co.

The many friends of W. A. Riggs, the Auburndale florist, will regret to learn that he has been confined to his bed for over a week with sciatic rheumatism.

Philip L. Carbone sustained a severe loss when a fire broke out in the basement of his Boylston street store at about 2.30 last Tuesday morning. The firemen battled with the flames for nearly three hours. The fire worked its way from the basement to the top of the building, three stories above, and left in ruins \$40,000 worth of pottery, glass, floral ware and various accessories. These are all covered by insurance, but, under existing conditions, will be extremely hard to duplicate. Overheated steam pipes are believed to have been the cause.

Loring Underwood was the speaker at the monthly meeting and dinner of the Boston Society of Architects at the Parker House last night. He gave an illustrated lecture on "Old New England Gardens." Among the pictures thrown on the screen were the gardens of the Craitie House and the Botanical Gardens, Cambridge, the Sargent gardens and the Gen. Weld estate, Wrentham, the Adams' house garden, Quincy, the Nicholas estate, and the Old Manse in Concord. He pointed out the simplicity of the early gardens and the Mr. Underwood said that people of those days built gardens to live in and

not to look at, as is too often the case today. He advised the planting of plenty of shade trees and shrubs for comfort and enjoyment.

PITTSBURGH (PA.) FLORISTS' AND GARDENERS' CLUB

The 25th anniversary of the founding of our Club was celebrated by a banquet at the Fort Pitt Hotel, on Nov. 21st. All the former presidents, also the first secretary were present. Among the notable remarks were those of P. S. Randolph, a large plantsman, who deplored the fact that the plant business had not kept pace with the cut flower business in development. Very fine plants were produced back in the sixties, and there has not been much increase in quality or price, while in cut flowers there has been great increase in both. He was followed by W. A. Clarke a commission man, who thought that one trouble in regard to plants was that they were not adequately displayed and demonstrated; they were not brought to the attention of the public as they should be, and instanced the street fakirs on the corners who, he claimed were of great value to the wholesale houses and the growers in the disposal of surplus stocks of cut flowers, and at the same time increasing the knowledge and love of flowers among the mass of the people, and creating a habit of buying among them. It was near midnight when the gathering drew to a close.

many of us wishing that the 25th anniversary could come every year.

The regular monthly meeting of the Club was held December 5th.

A rising vote of thanks was given E. C. Reineman, Chairman of the Banquet Committee, for the efficient manner in which he had handled that celebration. A committee was appointed consisting of E. C. Reineman, Augustus Frishkorn, Neil McCallum and T. P. Langhans to look up the matter of a suitable hall and report at the next meeting when a vote will be taken on the advisability of holding a fall flower show.

An attractive display of poinsettias and solanums was made by the Bureau of Parks, Jno. W. Jones, foreman, for which a certificate of merit was awarded, and to Pasquale Falbozzi a vote of thanks for narcissus.

Henry Meuschke read a paper on the "Street Fakir," claiming that the present method of selling surplus stocks of cut flowers to the street fakirs at a lower price than to the retailers was not fair to the retailers, and as a solution suggested the shortening of the stems of first-class stock, thereby reducing it to the second grade, and then selling to the retailers and the street fakirs at the same price. There was some discussion of the paper and it was finally suggested that it be read at the next meeting before a larger audience, and when a fuller discussion can be held. The next meeting promises to be a very full one, as in addition to the above paper, there will be action on the fall flower show and nomination of officers.

H. P. JOSLIN, Sec'y.

CHRISTMAS GREETINGS FROM D. C. ARNOLD & CO., Inc. WHOLESALE FLORISTS

Choice Carnations in Quantity; Roses in All
the Popular Selling Varieties; Single Violets
of Quality; Pansies; Extra Fine Poinsettias

SHIPPING ORDERS
SOLICITED

112 West 28th St., New York City

TELEPHONE
2287 FARRAGUT

HERMAN WEISS WHOLESALE FLORIST

Would like to hear from Growers of Snapdragon and
Single Violets for the New York trade

106 West 28th Street - - NEW YORK

Telephone Farragut 3066

CHICAGO FLORISTS' CLUB.

The Chicago Florists' Club held its regular December meeting at the Morrison Hotel on the seventh. It was the annual election of officers, and many members were out to work for their particular favorites, with the following results: President, Wm. H. Amling, Maywood, Ill.; vice-president, Paul Klingsporn, Chicago; secretary, Allie Zech, Chicago; treasurer, Otto Amling, Maywood, Ill. The president-elect is one of the most successful growers of cut flowers for the Chicago market and his stock is sold by the commission house of Zech & Mann. The vice-president came from Philadelphia three years ago to take the management of the Chicago Flower Growers' Association and has made good in his work and also made many friends here. The secretary is one of the youngest men in the trade to be at the head of a large wholesale business such as Zech & Mann has built up. The treasurer is a well-known grower and a nephew of the new president. Wm. F. Keimel was elected trustee to succeed Geo. Asmus, whose term has expired.

A. F. J. Baur, of Indianapolis, was present and exhibited carnations Merry Christmas and Pollyanna. J. C. Matheson, of Sheboygan, Wis., sent three plants of a pink begonia of the Enchantress Supreme shade. French & Salm had some magnificent Mrs. Russell roses from their place at

Union Grove. C. C. Watson, representing Niessen & Co., of Phila., expressed the belief that could the growers of his city see these roses they would be encouraged to try again to grow the Mrs. Russell rose. They made the high score of 92 points.

CONNECTICUT HORTICULTURAL SOCIETY.

The annual meeting of the Connecticut Horticultural Society was held in Hartford on Friday evening, Dec. 8th. After the general routine business had

been taken care of and the auditing committee had reported the books of the treasurer and the secretary O. K., the officers who served during 1916 were unanimously chosen to succeed themselves for 1917.

President Hollister introduced the matter of flower shows to be held next year, and plans are contemplated of giving Hartford a June Flower Show, a Dahlia Show and a Chrysanthemum Show. Inasmuch as the next meeting would be held the Friday before Christmas it was voted to omit that meeting.

ALFRED DIXON, Secy.

MY PURPOSE

is to treat any business entrusted to me in such
a fair and liberal manner as to make the custom-
er's relations with me satisfactory and profitable.

TELEPHONES

1623-24-25

MADISON SQUARE

JOSEPH S. FENRICH

Wholesale Florist

51 West 28th Street, NEW YORK

M. C. FORD

121 West 28th Street, NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL OTHER CUT FLOWERS for HOLIDAY TRADE

Telephone 3870 Farragut.

Order Christmas Cattleyas Now

This is sole agency for the sale of the entire product of

BEECHWOOD HEIGHTS NURSERIES,
Bound Brook, N. J.

The largest Cattleya growing establishment in the world.

Also Gardenias, Roses, Carnations, Sweet Peas, Violets, etc., etc., all from Growers whose flowers are in wide repute.

**Wholesale
Florist**

PAUL MECONI 57 W. 26th St.,
NEW YORK

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

The annual meeting of the Westchester and Fairfield Horticultural Society was held in Greenwich, Ct., Friday evening, Dec. 8. Special features were the fine display on the exhibition tables, the election of officers, the secretary's report and the financial statement of the treasurer, which showed a very healthy balance. The newly elected officers are as follows: President, Wm. Whitton; vice-president, John Andrew; treasurer, Robt. Williamson; secretary, J. B. McArdle; cor. secretary, Alex. Clarkson, all of Greenwich. Executive committee: Wm. Graham, Robt. Grunnert, also of Greenwich, and James Linane, of Rye, N. Y. A very wise selection of competent men has been made and we anticipate a very successful year for 1917.

The judges made the following awards: Cultural certificate to Robt. Grunnert, for display of carnations; seedling chrysanthemums from Jas. Foster were very highly commended; Jas. Stuart received honorable mention for vase of *Erlangea tomentosa*. The thanks of the society was tendered to the following exhibits: *Crinum amabile* from P. W. Popp; chrysanthemum Mrs. E. D. Godfrey from Jas. Foster; potatoes from Owen A. Hunwick; lettuce May King, from Paul Dwenger, and oranges from Jas. Foster. Robt. Johnson received high commendation for antirrhinum. During recess Messrs. Jas. Stuart and P. W. Popp entertained the members with a description of their recent visit

to Washington in connection with the annual meeting of the National Association of Gardeners. The retiring Secretary extends to all a merry Christmas and a happy and prosperous New Year. Next meeting Jan. 12th.

P. W. POPP, cor. secy.

CHRYSANTHEMUM SOCIETY OF AMERICA.

The following report of new chrysanthemums has been submitted by the committee.

Exhibited at Cincinnati, Ohio, Dec. 2, by Elmer D. Smith & Co., Adrian, Mich.; name of variety, The Crest; white, anemone; points, 85; December Queen; yellow, shaded bronze; Inc. Jap., com. points, 89.

Registrations.

Anemone Chrysanthemums by Mrs. Francis G. Lloyd, Bernardsville, N. J.

Mrs. Francis G. Lloyd—Pure white anemone on the order of Garza, larger flower, wider petals and considerably taller in growth.

Mrs. Owen Winston—Clear yellow with bright orange center, outer petals perfectly straight, plant a strong grower, tall and healthy habit.

Mrs. Chas. S. Whitman—Lavender pink with a center of light cream

yellow. An exceptionally fine variety.
CHAS. W. JOHNSON, Secy.

HORTICULTURAL SOCIETY OF WESTERN PENNSYLVANIA

President David Fraser presided at the recent session of the Horticultural Society of Western Pennsylvania, which was devoted largely to the subject of Chrysanthemums. Secretary Tyler had a fine showing of pompons, while Wm. Thompson, Jr., and Anthony A. Leach each exhibited late flowering varieties. Mr. Leach also contributed an interesting and instructive address on the culture of these varieties, which was the subject later of considerable discussion, pro and con. The three exhibitors each received a cultural certificate. M. Curran and Mr. Burnett were present as representatives of the Sewickley Society for the purpose of joint consideration of a Chrysanthemum Show next year. If so agreed the suburban organization will not plan for one; and, if not, the members will go ahead in anticipation of, if possible, surpassing their splendid initiative exhibition of the present season. The first anniversary of the Horticultural Society of Western Pennsylvania will be observed at the coming meeting, and there will be the election of officers for the year to come.

WE CARRY THE STOCK OF THE BEST GROWERS IN NEW ENGLAND
Roses, Carnations, Lilies, Orchids, Valley and all other seasonable flowers
We aim to please, a pleased customer is our best ad.

B. A. SNYDER CO., 278 Devonshire St., Boston, Mass.
(THE HOUSE OF QUALITY) Telephones Fort Hill 1083 and 1084

TRAENDLY & SCHENCK

436 SIXTH AVE.

Phone Farragut 797-798-799

NEW YORK CITY

Announce with our usual confidence, that at our place will be found the best—and the best and finest only—of the following high-class

ROSES

AMERICAN BEAUTY, HOOSIER BEAUTY, HADLEY, SHAWYER, MOCK, STANLEY, OPHELIA, WARD, SUNBURST, RADIANCE, MARYLAND, KILLARNEY PINK, KILLARNEY BRILLIANT, KILLARNEY WHITE

Exceptionally fine SWEET PEAS, and many of those nice Novelties required in an up-to-date establishment. CARNATIONS, all the good kinds and of Superior Quality.

VIOLETS. CATTLEYA, Trianae. CATTLEYA Percivaliana and all commercial varieties of Sprays in Season

TRAENDLY & SCHENCK,

436 6th Ave., near 26th Street, New York City
Phone, Farragut 796-798-799

ODDS AND DAINTIES

All Those Nice Things That The Other Fellow Cannot Supply But Which Make Your Store **DISTINCTIVE**

ALSO BEAUTIES, GARDENIAS AND SWEET PEAS

Consignments of Carnations Solicited

WALTER R. SIEBRECHT,

**114 West 28th Street
NEW YORK**

YOU WILL HAVE THEM ALL BEAT

if You Order Spanish Iris, Anemones and

Fine **HADLEY ROSES** from

WM. P. FORD,

**107 W. 28th St.
NEW YORK**

CYPRIPEDIUMS

\$15.00 per 100

Gardenias—Bouvardia—Beauties

Each item you find with us in quantity. We
Specialize in Specialties.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.55. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists
RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
264 RANDOLPH ST., DETROIT, MICH.

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.
If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262 B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Dec. 14	ST. LOUIS Dec. 11	PHILA. Dec. 11
Roses			
Am. Beauty, Special	40.00 to 60.00	40.00 to 50.00	40.00 to 50.00
" " Fancy and Extra	15.00 to 30.00	20.00 to 30.00	15.00 to 30.00
" " No. 1 and culls	4.00 to 10.00	1.50 to 2.00	6.00 to 12.50
Russell, Hadley	4.00 to 20.00	6.00 to 12.00	4.00 to 25.00
Killarney, Hillingdon, Ward, Extra	6.00 to 12.00	6.00 to 8.00	6.00 to 10.00
" " Ordinary	4.00 to 5.00	4.00 to 5.00	3.00 to 6.00
Arenburg, Radiance, Taft, Key, Extra	5.00 to 12.00	..... to	8.00 to 20.00
" " Ordinary	4.00 to 5.00	..... to	3.00 to 6.00
Ophelia, Mock, Sunburst, Euler, Extra	5.00 to 12.00	6.00 to 8.00	8.00 to 15.00
" " Ordinary	4.00 to 5.00	4.00 to 6.00	3.00 to 6.00
Carnations	4.00 to 6.00	1.50 to 2.00	2.00 to 6.00
Cattleyas	35.00 to 75.00	..... to 50.00	50.00 to 75.00
Dendrobium formosum	..... to 50.00	..... to	60.00 to 75.00
Lilies, Longiflorum	8.00 to 12.00	..... to	8.00 to 12.50
Lilies, Speciosum	..... to .....	..... to .....	..... to
Lily of the Valley	4.00 to 5.00	5.00 to 6.00	3.00 to 6.00
Snapdragon	2.00 to 4.00	..... to	4.00 to 10.00
Narcissi, Paper White	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Chrysanthemums	4.00 to 20.00	..... to .....	..... to
Violets	.75 to 1.00	.50 to .75	.75 to 1.00
Marguerites	.50 to 1.00	..... to	1.00 to 2.00
Gardenias	..... to 50.00	..... to	20.00 to 40.00
Adiantum	..... to 1.00	..... to 1.00	.75 to 1.00
Smilax	12.00 to 20.00	..... to 15.00	15.00 to 20.00
Asparagus Plumosus, & Spen. (100 Bchs)	25.00 to 35.00	25.00 to 35.00	25.00 to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568 570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture



CHRISTMAS BEAUTIES

"Burton Stock and Burton Quality"

We are now booking orders for **Holiday Beauties** of the best and choicest quality we have ever offered; long heavy, deep, richly colored buds, in quantity.

	Per doz.	Per 100
Special	\$12.00	\$75.00
Fancy	10.00	60.00
Extra	7.50	50.00
Firat	6.00	40.00
Second	4.00	25.00

50 at the 100 rate

Write for a complete list of Christmas Cut Flowers and Christmas Plants

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.

Flower Market Reports

BOSTON Stock is very scarce in this market. Whether this is entirely legitimate or is caused by growers hoarding up a part of their product for Christmas is a matter of conjecture, but from the amount and persistency of the demand from all sides it is easy to assume that the light supply is largely due to a real shortage of crop. All stock is of excellent quality. Roses lead in price and favor. American Beauties were particularly active the earlier part of this week but quieted down perceptibly when the prices became prohibitive. All varieties of white and red sold well. Carnations mounted to six and eight dollars per 100, rather high for two weeks before Christmas, but they were all superfine quality. Snapdragon shares the general activity and scarcity. The chrysanthemum still hangs on and was rather in evidence all week. Sweet peas, especially Spencers, enjoyed an excellent sale. A few callas are seen, but not nearly enough to satisfy orders. The same holds true in the case of lilies. Violets are fair in quality and rather few in number. Lily of the valley had come down from its perch of the last month and is being bought up at \$6.00 per 100. Double the quantity of everything could be easily used and unless the supply increases substantially in the next week record prices may be expected.

BUFFALO Weather conditions are favorable for excellent trade at present and the market sees little or no surplus. Business has been satisfactory for some time. Chrysanthemums have practically ended and the demand has fallen toward lilies, carnations and other stock. Carnations are scarce and prices rule high; roses are in equal demand. Holly and all decorative greens have begun to move and

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Dec. 11	CHICAGO Dec. 11	BUFFALO Dec. 11	PITTSBURG Dec. 11
Roses				
Am. Beauty, Special.....	90.00 to 100.00	50.00 to 60.00	30.00 to 40.00	5.00 to 10.00
" " Fancy and Extra.....	50.00 to 75.00	40.00 to 50.00	15.00 to 25.00	30.00 to 40.00
" " No. 1 and culls.....	15.00 to 35.00	15.00 to 25.00	3.00 to 12.00	15.00 to 25.00
Russell, Hadley.....	20.00 to 40.00	5.00 to 30.00	4.00 to 12.00	8.00 to 15.00
Killarney, Hillingdon, Ward, Extra	15.00 to 20.00	8.00 to 10.00	5.00 to 10.00	8.00 to 12.00
" " Ord.	6.00 to 12.00	4.00 to 6.00	3.00 to 6.00	4.00 to 6.00
Arenburg, Radiance, Taft, Key, Ex.	..... to .....	..... to	8.00 to 10.00	..... to
" " Ord.	..... to .....	..... to	3.00 to 8.00	..... to
Ophelia, Mock, Sunburst, Euler, Ex	15.00 to 25.00	5.00 to 12.00	8.00 to 10.00	8.00 to 12.00
" " Ord.	8.00 to 12.00	4.00 to 6.00	4.00 to 8.00	..... to 6.00
Carnations	6.00 to 10.00	2.00 to 4.00	1.00 to 5.00	1.00 to 4.00
Cattleyas	75.00 to 100.00	60.00 to 90.00	60.00 to 80.00	40.00 to 70.00
Dendrobium formosum.....	..... to	40.00 to 50.00	..... to .....	..... to
Lilies, Longiflorum	12.50 to 15.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
Lilies, Speciosum.....	..... to .....	..... to	4.00 to 6.00	..... to
Lily of the Valley.....	..... to 7.00	5.00 to 6.00	5.00 to 7.00	..... to 8.00
Snapdragon	6.00 to 8.00	8.00 to 12.00	4.00 to 8.00	4.00 to 6.00
Narcissi Paper White	3.00 to 4.00	3.00 to 4.00	2.50 to 3.00	1.00 to 4.00
Chrysanthemums	15.00 to 25.00	10.00 to 25.00	5.00 to 25.00	12.00 to 25.00
Violets	1.50 to 2.00	.75 to 1.50	1.00 to 1.25	.75 to 1.25
Marguerites.....	..... to .....	..... to	1.00 to 1.50	..... to 1.00
Gardenias.....	..... to	25.00 to 35.00	25.00 to 30.00	..... to
Adiantum.....	..... to 1.00	..... to 1.00	1.00 to 1.25	.75 to 1.25
Smilax	15.00 to 20.00	10.00 to 20.00	15.00 to 20.00	..... to 20.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00 to 50.00	25.00 to 50.00	35.00 to 50.00	40.00 to 50.00

the days are becoming busier in this line. Holly is good and active though a little early. Indications point toward a record breaking trade for the holidays.

The quiet that precedes a big holiday is due this week and its existence is felt in all the wholesale houses. Only those who are really in need of flowers are seen in the market. Stock is not being rushed in, for Christmas is too near and the cool weather makes it possible to hold back for the big days ahead. In carnations this change is quite noticeable, supply being much shorter and prices stiffer. There are plenty of chrysanthemums for the limited demand this week. Holly is

coming in from the East and the grade seems to be good, the color being good and the berries fairly plentiful.

Market conditions **CINCINNATI** are fair. There is a steady but not particularly active demand while the supply is large enough to satisfy all present needs. Shipping business, particularly in greens and supplies, is excellent. Orders for Christmas stock are coming in rapidly. Roses are very plentiful. The short grades are meeting with the best sale. Some excellent carnations may be had. Violets have been enjoying a good market. Lily of the valley, orchids and sweet peas sell pretty well. Stevia is in a heavy

(Continued on page 8.)

New England Florist Supply Co.
SPECIAL — 10 BARREL SALE Sphagnum Moss, \$3.50
276 Devonshire Street, BOSTON, MASS.
Fort Hill, 3169
TELEPHONES: Main, 4789 W
Open 6 a. m. to 7 p. m.

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK

Telephone: 2206, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street

Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE 608 FARRAGUT NEW YORK
(609)

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.

tel. 1593 Mad Sq. 119 W. 28 St., New York
(5893)

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.

Wholesale Commission

READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE 2281 FARRAGUT 131 West 28th St., NEW YORK CITY
2089

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.
WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 2483 Farragut

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS
GARDENIAS, DAISIES, ROSES, CARNATIONS ON HAND

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones 1664
1665 Madison Square

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending Dec. 9 1916		First Half of Week beginning Dec. 11 1916	
American Beauty, Special	25.00	to 40.00	25.00	to 40.00
" " Fancy and Extra	15.00	to 20.00	15.00	to 20.00
" " No. 1 and culls	2.00	to 8.00	3.00	to 8.00
Russell, Hadley	4.00	to 10.00	4.00	to 30.00
Killarney, Hillingdon, Ward, Extra	3.00	to 8.00	3.00	to 8.00
" Ordinary	1.00	to 2.00	1.00	to 3.00
Arenburg, Radiance, Taft, Key, Extra	3.00	to 8.00	3.00	to 8.00
" Ordinary	1.00	to 3.00	1.00	to 3.00
Ophelia, Mock, Sunburst, Euler, Extra	3.00	to 10.00	3.00	to 10.00
" Ordinary	.75	to 1.00	1.00	to 2.00
Carnations	1.50	to 3.00	3.00	to 4.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for do-
ing our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK
Phones 2036, 2037, 558 Farragut

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797, 798, 799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality

114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13—8510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 821)

supply and is good property. Narcissus and calla receipts are equal to all present needs.

There are still some good chrysanthemums in this market but they are rapidly disappearing, and sales are made readily, not only on chrysanthemums but many other things for the supply is not too large on any line except it be stevia and paper white narcissi and also on some varieties of roses, notably the dark red Hoosier Beauty which appears to be no match for the irresistible Hadley. Violets are greatly improved but the regular stores appear to be not able to dispose of them all as the fakers generally have a supply for street distribution. Mignonette of nice quality has made its appearance and there are also daisies yellow and white, snapdragons and a few Roman hyacinths now in sight. Lilies are fairly plentiful. Lily of the valley scarce and much of it inferior. Cattleyas are easing up a little in price, Percivaliana bringing low figures but Trianae holding up well in value.

The market continues in good healthy condition. The demand has been good and supplies not above normal—in fact, in some lines rather under, as many growers are holding back their plants for the holiday rush. There is an excellent clean up daily along the line. Roses have sold well at good prices although not so fancy as we hear of from some of our growers who ship to New York. Carnations also go better than usual and have reached the highest price of the season. Chrysanthemums are nearly over—Nonin being the most conspicuous at present. Sweet peas are gradually improving, both as to flower and stem, and are now of really excellent quality. Cattleyas are a little more plentiful, and cypripediums are also available in quantity—the latter unusually fine flowers as to size, color and finish. That beautiful spring flower, the pussy willow, is on deck already. It seems to be getting the Easter lily habit—a sort of all the year round proposition. Another early bird is the cut poinsettia. These too will move better a little later.

Business hereabouts surpasses any previous pre-Christmas season. Advance orders have been booked far ahead and stock just at time of writing is a little scarcer than for some time past. Everything is of fine quality, all homegrown goods being exceptionally satisfactory. However, as far as shipments are concerned, the signs are for a most trying season for both sellers and purchasers. Delays in arrivals

(Continued on page 827)

Telephone 1860 Madison Square

WOODROW & MARKETOS
WHOLESALE

Plantmen and Florists

37 and 39 West 28th St., NEW YORK

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A.M.

HERMAN WEISS WHOLESALE FLORIST

Can handle shipments of growers' product satisfactorily. Would like to hear from Growers of Daisies, etc., for the New York trade.

106 West 28th St., NEW YORK
Tel. Farragut 3066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Dec. 9 1916		First Half of Week beginning Dec. 11 1916	
Cattleyas.....	25.00	to 75.00	25.00	to 60.00
Dendrobium formosum.....	.....	to 50.00	.....	to 50.00
Lilies.....	5.00	to 7.00	5.00	to 8.00
Lilies, Speciosum.....	2.00	to 6.00	2.00	to 6.00
Lily of the Valley.....	4.00	to 6.00	4.00	to 6.00
Snapdragon.....	2.00	to 4.00	2.00	to 4.00
Narcissi, Paper White.....	2.00	to 3.00	2.00	to 3.00
Chrysanthemums.....	4.00	to 25.00	4.00	to 25.00
Violets.....	.50	to 1.00	.50	to 1.00
Marguerites.....	1.00	to 2.00	1.00	to 2.00
Gardenias.....	20.00	to 40.00	20.00	to 40.00
Adiantum.....	.50	to 1.00	.50	to 1.00
Smilax.....	6.00	to 12.00	6.00	to 12.00
Asparagus Plumosus, & Spreng (100 bunches).....	10.00	to 25.00	10.00	to 25.00

ORCHIDS - - GARDENIAS

HEADQUARTERS for the entire output of the

BEECHWOOD HEIGHTS NURSERIES, of Bound Brook, N. J.

PAUL MECONI—Wholesale Florist—NEW YORK
Telephone Nos. 3864 and 8364 Madison Square
57 WEST 26th STREET

J. J. COAN, INC.
115 WEST 25TH STREET
New York
Tel., Farragut 5413-5891
EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.
BOSTON'S FOREMOST
Wholesale and Commission Florists
32 Otis Street, 2 Winthrop Square
BOSTON, MASS.
Telephone 2618-2617-2616, Main.

William Stuart Allen Co.
Commission Merchants in

CUT FLOWERS
53 West 28th Street, NEW YORK
Telephone—356 Madison Square.

VIOLETS
B. S. SLINN, Jr., 55-57 W. 26th St.
NEW YORK

Send Flower Consignments to
L. B. NASON
Wholesale Florist
116 West 28th St., NEW YORK CITY
Shipping Orders Carefully Filled.
Correspondence solicited.
Telephone, Farragut 2245.

GEO. W. CRAWBUCK, Pres.
George W. Crawbuck Co.
(INC)

Wholesale Commission Florists
57 WEST 28th STREET, NEW YORK
Telephone, Madison Square 5296

UNITED CUT FLOWER CO., INC.
Flowers Sold on Commission
Consignments of
Good Stock Solicited
111 W. 28th St., - NEW YORK
A CLEAN RECORD
for 28 years as Commission Florist

J. K. ALLEN
TELEPHONE 118 West 28th Street
167 & 3058 Farragut NEW YORK
Established 1888 Tel. 551 Farragut

GUNTHER BROS.
Wholesale Commission Florists
110 West 28th St., New York
We Solicit Consignments of New
England Grown Novelties.

Beechwood Heights Nurseries
Importers and Growers of
ORCHIDS
Cut Flowers of All the Leading Varieties
in their Season.
THOMAS YOUNG, Jr., Proprietor
BOUND BROOK, N. J.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display Advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-
LINGDALE GREENHOUSES, Collingdale, Pa.

AUCTION SALES.

Elliott Auction Co., New York City.
Plant Auctioneers.
For page see List of Advertisers.
Johnson & Millang, Inc., New York City.
Bulbs and Boxwood at Auction.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.
August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

Henry A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES. Write for wholesale price-list.

JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. N. Plerson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.

White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS.

Mrs. J. A. Peterson (New), 2 1/4 in. pots, \$25.00 per 100; \$200.00 per 1000.

JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.

"King Ideal" Boiler.

For page see List of Advertisers.

Lord & Burnham Co., New York City.

Hitchings & Co., New York City.
For page see List of Advertisers.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

August Rolker & Sons, New York City.
For page see List of Advertisers.

BOX TREES—Standards, Pyramids and Bush. Price list on demand.

JULIUS ROEHRS CO., Rutherford, N. J.

BULBS AND TUBERS

F. R. Pierson, Tarrytown, N. Y.
List of Surplus Bulbs at Reduced Prices.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.

Lilium Harrisii.

For page see List of Advertisers.

American Bulb Co., Chicago, Ill.

French and Dutch Bulbs.

For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
French, Japan, Holland and Cold Storage Bulbs.

For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.

For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,

New York City.

For page see List of Advertisers.

Harry Quint, Boston, Mass.
Superior Quality Paper White Narcissus.
For page see List of Advertisers.

Hogewoning & Sons, New York City.
Bulbs for Easter Blooming.

Albert Roper Estate, Tewksbury, Mass.
New Carnation Albert Roper.
For page see List of Advertisers.

Fottler, Fiske, Rawson Co., Boston, Mass.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

WESTERBEEK & KLYN,

SASSENHEIM, HOLLAND.

Write for prices on all kinds of bulbs to 14 Stone St., New York.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

CHRISTMAS GREENS

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

CHRYSANTHEMUMS

Charles H. Totty, Madison, N. J.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.,

White Marsh, Md.

Pompon Chrysanthemums.

For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.

For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.

New Chrysanthemum for 1917.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City,
Or Frank Dinda, Farmingdale, N. Y.
Chrysanthemum—Alex Guttman.
For page see List of Advertisers.

CINERARIAS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

ORDERS BOOKED ANY TIME

For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Julius Roehrs Co., Rutherford, N. J.
Choice Flowering and Foliage Plants.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodroy & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

For Plants and Cuttings get our prices before ordering elsewhere. Our guarantee with every order. Write for a copy of our latest Plant Bulletin.

Asparagus	Cyclamen	Primula
Begonias	Daisies	Smilax
Bulbs	Dracaena	Snappedragons
Calceolaria	Ferns	Violets
Calandula	Geraniums	
Cineraria	Hydrangeas	

S. S. PENNOCK-MEEHAN COMPANY,
Philadelphia, 1608-1612 Ludlow St.
Baltimore, Franklin and St. Paul St.
Washington, D. C., 1216 H St., N. W.
New York, 117 W. 28th St.

FERNS

A. M. Davenport, Watertown, Mass.
Small Ferns for Dishes.
For page see List of Advertisers.

For List of Advertisers See Page 803

FERNS—Continued

- R. Vincent, Jr., & Sons Co., White Marsh, Maryland.
For page see List of Advertisers.
- H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

FERTILIZERS

- Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.

FLORISTS' PLANT STOCK

- Anglin & Walsh Co., Williamsbridge, N. Y.

FLORISTS' SUPPLIES

- Boston Florists' Supply Co., Boston, Mass.
Cycas, Baskets and Wax Goods.
For page see List of Advertisers.

- Reed & Keller, New York City.
For page see List of Advertisers.
- S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.
- H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.
- Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

- W. H. Ernest, Washington, D. C.
For page see List of Advertisers.
- A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FLOWER POT WASHERS

- Fowler Mfg. & Supply Co., Cleveland, Ohio.
For page see List of Advertisers.

FUNGICIDES

- Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

- R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.
- Geraniums, S. A. Nutt, 2 in., \$2.00 per hundred, \$18.00 per thousand; rooted cuttings, \$12.00 per thousand. Cash. Also few white cuttings and 2 in. W. E. ALLEN, Leominster, Mass.

GLADIOLI

- John Lewis Childs, Flowerfield, L. I., N. Y.
New Catalogue.
For page see List of Advertisers.

GLASS

- Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.
- Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.
- Louis Cohen, New York City.
Window and Plate Glass.
For page see List of Advertisers.
- Royal Glass Works, New York City.
For page see List of Advertisers.

- Johnston Brokerage Co., Pittsburgh, Pa.
Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

- GLASS—6 x 8, 8 x 10, 10 x 12, 10 x 14, \$1.90 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

GLAZING POINTS

- H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

- GREENHOUSE BUILDING MATERIAL**
King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

- Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.
- Lord & Burnham Co., New York City.

- A. T. Stearns Lumber Co., Neponset, Boston.
Pecky Cypress.

GREENHOUSE CONSTRUCTION

- King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

- Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

- Lord & Burnham Co., New York City.

- A. T. Stearns Lumber Co., Boston, Mass.

- S. Jacobs & Sons, Brooklyn, N. Y.

- William H. Lutton Co., Jersey City, N. J.
For page see List of Advertisers.

- Hitchings & Co., New York City.
For page see List of Advertisers.

- Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

- John C. Moninger Co., Chicago, Ill.

GREENHOUSE THERMOSTAT

- Standard Thermo Co., Boston, Mass.
A Sleepless Watchman.

GUTTERS

- King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

- Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

- Michigan Cut Flower Exchange, Detroit, Mich.
For page see List of Advertisers.

- The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

- Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

- P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

- Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

- Lord & Burnham Co., New York City.

HOSE

- Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

- H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOSE VALVE

- Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

HOT BED SASH.

- Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

- S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

- Foley Greenhouse Construction Co., Chicago, Ill.
For page see List of Advertisers.

- Lord & Burnham Co., New York City.

- A. T. Stearns Lumber Co., Neponset, Mass.

HYDRANGEAS

- Anglin & Walsh Co., Williamsbridge, N. Y.
Otaksa and Avalanche.

INSECTICIDES

- Hammond's Paint & Slug Shot Works, Beacon, N. Y.
Hammond's Thrip Juice No. 2.
For page see List of Advertisers.

- Aphine Manufacturing Co., Madison, N. J.
Aphine.
For page see List of Advertisers.

INSECTICIDES—Continued

- Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

- Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.

- For page see List of Advertisers.

- Lemon Oil Co., Baltimore, Md.
Lemon Oil Insecticide.

- For page see List of Advertisers.
- B. G. Pratt Co., New York City.
Scalecide.

IVIES

- A. M. Davenport, Watertown, Mass.
English Ivies.
For page see List of Advertisers.

LILY BULBS.

- Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

- McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

- R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

- J. M. Thorburn & Co., New York City.
Lilium Harrisii Bulbs.
For page see List of Advertisers.

- Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

- A. Henderson & Co., Chicago, Ill.
Lilium Giganteum.
For page see List of Advertisers.

- Roman J. Irwin, New York City.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

- Chas. Schwake & Co., Inc., New York City.
Hohmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

- Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

- F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

- National Nurseryman Publishing Co., Inc.
Hathoro, Pa.
For page see List of Advertisers.

NIKOTEEN

- Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

- Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

- A. Koloos & Co., Gouda, Holland; also L. Vanbeerde, care Maltus & Ware, 14 Stone St., New York City.
Holland Grown Roses, Plants and Shrubs.
For page see List of Advertisers.

- R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

- P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

- W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

- The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

- Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

- Boblink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

- August Rolker & Sons, New York City.
Holland Nursery Stock.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Beechwood Heights Nurseries,
Bound Brook, N. J.
Importers and Growers of Orchids.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Francisco Delgado Q, Bogota, Colombia.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

PEONIES

F. J. Grootendorst & Sons, New York City.
Herbaceous Chinese Peony Lord Kitchener.
Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.

PIPE AND FITTINGS.

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Hardy Roses.
For page see List of Advertisers.

M. H. Walsh, Woods Hole, Mass.
Specimen Rose Plants for Forcing.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

A. Koloos & Co., Gouda, Holland; also
L. Vanbeerde, care Maltus & Ware,
14 Stone St., New York City.
For page see List of Advertisers.

SASH

STANDARD HOTBED SASH, with cross
bar, 85c. each; lots of 25 and over, 80c.
each. Satisfaction guaranteed or money
refunded. Glass 6 x 8, 8 x 10, 10 x 12 or
10 x 14, \$1.90 per box of 50 sq. ft.
C. N. ROBINSON & BRO., Dept. 29, Balti-
more, Md.

SCALECIDE

B. G. Pratt Co., New York City.

SCARLET SAGE SEED

D. Landreth Seed Co., Bristol, Pa.
For page see List of Advertisers.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Shamrock Seed
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
Flower Seed for Early Sowing.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Amt. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snappdragon.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Seeds, Selected Strains.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
For page see List of Advertisers.

Roman J. Irwin, New York City.
For page see List of Advertisers.

S. D. Woodruff & Sons, New York City and
Orange, Conn.
Garden Seeds.
For page see List of Advertisers.

Fottler, Fisk, Rawson Co., Boston, Mass.
Seeds for the Florist

Clematis paniculata, Stokesia cyanea and
other seeds. BENJ. CONNELL, Florist,
Merchantville, N. J.

SHAMROCK SEED

Arthur T. Boddington, New York City.
For page see List of Advertisers.

SPHAGNUM MOSS

New England Florist Supply Co., Boston,
Mass.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.
The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS**Albany, N. Y.**

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 568-570 Washing-
ton St.
For page see List of Advertisers.

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.

Zech & Mann, 30 East Randolph St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 264-266
Randolph St.
For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
For page see List of Advertisers.

Hentz & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

For List of Advertisers See Page 803

WHOLESALE FLORISTS

New York—Continued

Traendly & Schenck, 436 6th Ave., between 26th and 27th Sts.

For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.

For page see List of Advertisers.

Paul Meconi, 57 West 28th St.

For page see List of Advertisers.

Woodrow & Marketos, 37 and 39 W. 28th St.

For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.

For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.

For page see List of Advertisers.

John Young & Co., 53 West 28th St.

For page see List of Advertisers.

M. C. Ford, 121 West 28th St.

For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.

For page see List of Advertisers.

Guttman & Raynor, Inc., 101 W. 28th St.

For page see List of Advertisers.

Gunter Bros., 110 West 28th St.

For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.

For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.

For page see List of Advertisers.

Herman Weiss, 106 West 28th St.

For page see List of Advertisers.

J. J. Coan, 115 West 28th St.

For page see List of Advertisers.

George W. Crawbuck Co., 47 West 28th St.

For page see List of Advertisers.

William Stuart Allen Co., 53 West 28th St.

For page see List of Advertisers.

L. B. Nason, 116 West 28th St.

For page see List of Advertisers.

B. S. Slinn, Jr., 55-57 West 28th St.

For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.

For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St.

For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-20

Ludlow St.

For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.

For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.

For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St.,

N. W.

For page see List of Advertisers.

THE NUT-GROWER

The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

NEW OFFERS IN THIS WEEK'S ISSUE**CHRISTMAS BEAUTIES.**

S. S. Pennock-Meehan Co., Philadelphia, Pa.

For page see List of Advertisers.

CHRISTMAS CATTLEYAS.

Paul Meconi, New York City.

For page see List of Advertisers.

CHRISTMAS CUT FLOWERS AND GREENS.

Welch Bros. Co., Boston, Mass.

For page see List of Advertisers.

CHRISTMAS CUT FLOWERS.

Wm. P. Ford, New York City.

For page see List of Advertisers.

CHRISTMAS FLOWERS AT WHOLESALE.

D. C. Arnold & Co., Inc., New York City.

For page see List of Advertisers.

CHRISTMAS FLOWERS BY TELEGRAPH.

Edward Sceery, Passaic, N. J.

For page see List of Advertisers.

GREENHOUSE CONSTRUCTION.

William H. Lutton Co., Jersey City, N. J.

For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

Metropolitan Material Co., Brooklyn, N. Y.

For page see List of Advertisers.

HIGH-CLASS CUT FLOWERS FOR CHRISTMAS.

Traendly & Schenck, New York City.

For page see List of Advertisers.

LILIUM GIGANTEUMS.

Yokohama Nursery Co., Ltd., New York

City.

For page see List of Advertisers.

ODDS AND DAINTIES.

Walter R. Siebrecht, New York City

For page see List of Advertisers.

RETAIL FLORIST.

Alexander McConnell, New York City.

For page see List of Advertisers.

SNAPDRAGON AND SINGLE VIOLET GROWERS ATTENTION.

Herman Weiss, New York City.

For page see List of Advertisers.

TULIPS, NARCISSUS, IRIS, CROCUS TO CLOSE.

Elliott Auction Co., New York City.

For page see List of Advertisers.

WHOLESALE FLORIST

Joseph S. Fenrich, New York City.

For page see List of Advertisers.

WHOLESALE FLORISTS

B. A. Snyder Co., Boston, Mass.

For page see List of Advertisers.

WANTS, FOR SALE, ETC.**HELP WANTED****WANTED**

Gardener or store clerk well informed in Plants, to take charge for the Holidays or longer, of the plant department of a New York City retail store. Write quick to **Florist**, care W. F. SHERIDAN, 133 W. 28th St., New York.

SITUATIONS WANTED

SITUATION WANTED by single man, 17 years' experience on private estates. No trifles answered. "G. D." care HORTICULTURE, Boston.

Flower Market Reports

(Continued from page 823)

are causing complaints all the time. Christmas greens, which should have been in some time since are still unheard of and the tardy arrival of violets, as reported last week, is even worse now. Goods of all kinds are held up owing to lack of railroad facilities, and those which succeed in reaching the city are again delayed in the delivery to the ultimate destination. And so it goes, "One woe doth tread upon another's heels, so fast they follow." The trouble is not restricted to this country, as the importations are having a like fate. Losses on azalea shipments from abroad are especially large, one firm (the Blind Floral Company) having lost sixty-two per cent. in a recent consignment.

In addition to the varieties listed in the tabulated price lists the following flowers are now on the market. Stevia, \$30 to \$50 per 100 bunches; calendulas, \$3 to \$5 per 100; sweet peas, \$1 to \$2; Roman hyacinths, \$2 to \$4.

Freezing weather is

ST. LOUIS now here and stock is coming in in fairly

large supply, carnations being especially plentiful. Roses hold up well in price and are not in oversupply. The quality is good. Violets are improving. Narcissus is plentiful. Chrysanthemums are about over; a few stragglers only are left.

The trade is well

WASHINGTON pleased with the business the past

week. Flowers were more plentiful while prices showed a slight stiffening. Chrysanthemums are still very good and sell readily at fair prices. Lily of the valley remains at \$7 and \$8 per 100. Violets are not moving, even at \$1 per 100. The weather has not been cool enough to make their sale good. Sweet peas are bought as soon as offered. Carnations are not plentiful and are bringing better prices. There are plenty of greens. Narcissus is more plentiful and selling better. There are more gardenias than there have been and the sale of these with orchids is dragging. Lilies are not moving.

DURING RECESS.

Boston Florists' Bowling League.

Scores recorded December 7:

Waban	441	428	412	1314
Carbone	457	402	435	1294
Snyder	414	400	399	1213
Penn	392	437	408	1237
Galvin	416	456	456	1358
Mc & Mac	426	459	449	1334
New England	415	437	415	1267
Robinson	397	378	377	1142
Flower Market	457	452	452	1361
Flower Exchange	439	452	431	1322

Ithaca, N. Y.—Robert Shore is slowly recuperating after a very serious illness lasting since November 14.

In writing to Advertisers kindly mention Horticulture

PUBLICATIONS RECEIVED.

Trees and Shrubs Hardy in the British Isles—By W. J. Bean, Assistant Curator, Royal Botanic Gardens, Kew, England. Revised Edition. In two volumes, with 1385 pages of text, copious index, many full page plates and very freely illustrated with figures prepared from photographs. A select bibliography is given. The first chapter is historical in character and Chapters II to XXVII are practical and cover all phases from propagation, transplanting, pruning etc., to lists of plants for special and peculiar situations. That on pruning is especially thorough and practical. The rest of the work is devoted to a discussion of the species and genera alphabetically arranged. The descriptions are terse and clear, and the habitat and date of introduction is usually given. The Royal Gardens, Kew, is taken as a standard for hardiness. The arrangement of the contents is simple and remarkably easy; the type is excellent and the illustrations leave nothing to be desired.

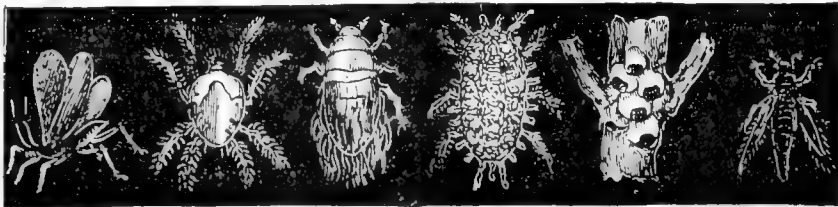
The author is recognized as one of the highest authorities on hardy woody plants in Europe and his thirty-three years' association with the vast collections at Kew have given him invaluable opportunities. He is also familiar with the contents of all the famous gardens in Great Britain and Ireland; further, he has travelled extensively on the continent of Europe and in 1910 he visited this country. All in all, Mr. Bean is particularly well fitted to write authoritatively on the subject to which he has devoted a lifetime and he has handled it in a masterly way. In Great Britain and Ireland the work will undoubtedly remain a standard for many decades to come, and we congratulate the garden fraternity on thus possessing such an excellent treatise.

To us in this country where far greater extremes of climate and soil obtain, the consideration of hardiness of many plants, especially broad-leaved evergreens, in this book has little or no application. In these matters we have to work out our own problems. But apart from this important detail, Mr. Bean's book is full of valuable information and should be in the hands

Hammond's Thrip Juice No. 2

REGISTERED

A Contact Insecticide, Useful and Reliable, Used for 30 Years in Greenhouses, and on Plants, Grape Vines, Trees and Shrubs



Some common Sucking Insects, magnified.

HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.

of all interested in hardy woody plants. In this connection it is interesting to note that a few things are mentioned as uncertain in Kew which have so far proved hardy in the vicinity of Boston—for example, *Viburnum Carlesi*. Among the plethora of works on gardening now issued or being issued a few have and will attain permanent character, and among these "Trees and Shrubs Hardy in the British Isles" will command a prominent place. Had we space we might enter into greater details in regard to this work, but we content ourselves with commending it to our readers as a worthy book on a worthy subject worthily executed.

The book is being distributed in this country by E. P. Dutton & Company, 681 Fifth avenue, New York City.

FLATHEADED BORERS ON FOREST TREES.

Flatheaded borers are among the most important of the borers infesting forest trees in the United States. Some mine the leaves, one burrows into the cones, a number bore into the inner bark and outer wood of the trunk, branches, and roots, while the majority excavate oval winding "wormholes" throughout the sound or decaying sapwood and heartwood.

The bark-borers often girdle and kill healthy trees or those injured by fire, floods, droughts, diseases, other insects, or careless lumbering, and at other times weaken trees so that they become easy victims of diseases, other insects, or unfavorable environment. Sometimes when they do not kill the tree outright their work causes dead limbs or twigs, or serious defects, checks, or gum spots to form in the wood, or swollen galls to form on the branches. The wood-borers mine the sapwood and heartwood of the trunk, top, and larger branches and thus destroy or seriously injure a large amount of the tree's most valuable product, its timber. Wormholes will cause the finest grade clear lumber to become unfit for the higher grade uses and, therefore, unsalable at the higher prices. Bureau of Entomology, U. S. Department of Agriculture.

HOLYOKE AND NORTHAMPTON (MASS.) FLORISTS' AND GARDENERS' CLUB.

The regular meeting was held Dec. 5th at Gallivan Bros.' greenhouses with a good attendance of members. Chief interest centered in the election of officers. George Strugnell was

Aphine
The Insecticide that
kills plant Lice
of many species

The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products **FUNGINE, VERMINE** and **BOA-LINE** will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on **APHINE** and **NIKOTIANA**.

Aphine Manufacturing Co.
MADISON, N. J.

LEMON OIL CO'S
STANDARD
SOLUBLE IN WATER
INSECTICIDE
NO ODOR NO POISON

Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

1/2 Pint, 25c.; Pint, 40c.; Quart, 75c.; 1/2 Gallon, \$1.25; Gallon, \$2; 5 Gallon Can, \$9; 10 Gallon Can, \$17.50. Directions on package.

LEMON OIL COMPANY

Dept. S. 420 W Lexington St., Baltimore, Md.

elected president and H. E. Downer vice-president. James Whiting was re-elected secretary for his fourth term. His report showed the club to be making steady progress from year to year. K. B. Ullman, F. D. Keyes and W. J. Gallivan were elected as the executive committee. Three new members were added.

IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write
EASTERN CHEMICAL CO., BOSTON

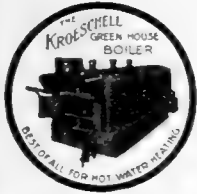


NIKOTEEN
For Spraying
APHIS PUNK
For Fumigating
Ask Your Dealer For It.
NICOTINE MFG. CO.
ST. LOUIS

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

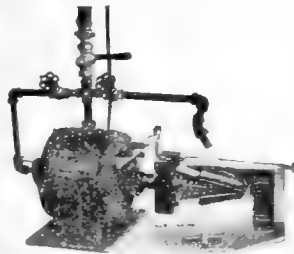
Kroeschell Bros. Co., 466 W. Erie St., Chicago**KING CONSTRUCTION COMPANY, North Tonawanda, N. Y.****GREENHOUSES****We Claim Maximum Strength and Minimum Shadow. Investigate**

BOSTON OFFICE: 113 State St., Boston, Mass.

PHILADELPHIA OFFICE: Harrison Building, 15th and Market Sts., Philadelphia, Pa.

**NON-KINK WOVEN HOSE**In any length (one piece)
with couplings, 15c. per
foot. Unequalled at the
price.**Hose Valve, 70c.**All brass except the hand
wheel. Has a removable
leather disk which is eas-
ily replaced to keep water
tight. Stuffing box pre-
vents leaks at stem.**METROPOLITAN MATERIAL CO.**

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

What Do You Do With Your Foul Pots?THROW THEM AWAY?—WASTEFUL!
CLEAN THEM BY HAND? LABOR TOO COSTLY!
USE THEM DIRTY?—RESULTS NOT STANDARD!

WHY DO EITHER?

The Presto Pot WasherDoes Ten Men's Work With Better Results,
Electric, Water, and Belt Driven

Write and tell us what power you have

FOWLER MFG. & SUPPLY CO.

808 Park Building

CLEVELAND, O.

**MASS. AGRICULTURAL COLLEGE
NOTES.**C. E. Wildon is to be with G. H. Sin-
clair, of Holyoke, over the Christmas
rush.Prof. and Mrs. A. H. Nehrling are
to spend the Christmas holidays in the
Middle West.Prof. C. I. Lewis, of the Oregon
Agricultural College, visited the col-
lege during the past week.The department is planning to place
all the students in retail establish-
ments about Boston, Springfield, Wor-
cester, Northampton and Holyoke dur-
ing the holiday season.Last Monday the students were
taken on a tour of inspection of the
Sinclair house at Smith's Ferry. Mr.
Sinclair showed the party around and
pointed many details of interest to
the students.At the last meeting of the M. A. C.
Botanical Club, Donald White, of
Wakefield, was elected president; Pro-
fessor A. V. Osmun, vice-president,
and Professor C. H. Thompson, secre-
tary-treasurer.**GREENHOUSES BUILDING OR CON-
TEMPLATED.**Houghton, Mich.—Dale & Nicholas,
three houses.Clinton, Ill.—Sylvester Grimsley,
house, 28x51.Homer, N. Y.—J. J. Arnold, one
house, completed.Corfu, N. Y.—David J. Scott, sweet
pea house, 36x126.Houston, Tex.—R. C. Kerr, range of
houses, each 25x150.Pine Hill, N. Y.—Hugo Berkle, 46
Long avenue, alterations.Clifton, N. J.—Wm. H. Morris, Jr.,
Union avenue, house, 10x30.Montreal, Can.—E. J. Hayward,
house, 25x100, completed.Terre Haute, Ind.—Davis Gardens
Co., one house, completed.Danbury, Ct.—Deer Hill Conserva-
tories, 28 Main street, 130-ft. house.Owosso, Mich.—Sunnyside Green-
houses, rose house, 50x100, completed.M. C. Wright, who for the past six
years has been manager of Lord &Burnham Co.'s, Philadelphia and
Southern territory, will, the first of
the year, go to their Chicago office as
manager of sales. C. C. McDermott,
who for the past three years, has been
manager of their Canadian sales, will
take Mr. Wright's place.**DREER'S**Florist Specialties,
New Brand, New Style,
Hose "RIVERTON."Furnished in lengths up
to 500 ft. without seam or
joint.

The HOSE for the FLORIST

1/2-inch,	per ft., 15 c.
3/4-inch,	per ft., 14 c.
1-inch,	per ft., 13 c.
1 1/2-inch,	per ft., 12 c.
2-inch,	per ft., 11 c.

Couplings furnished
HENRY A. DREER,
214 Chestnut St.,
PHILADELPHIA, PA.**STANDARD FLOWER****POTS**If your greenhouses are within 500
miles of the Capital, write us—we can
save you money.**W. H. ERNEST**

29th & M Sts., Washington, D. C.

FOLEY MATERIALS

ARE THE BEST FOR
Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, - - - - - CHICAGO, ILL.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

MASTICA



For Greenhouse
Glazing

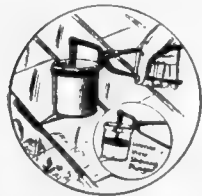
USE IT NOW

F. O. PIERCE CO.

12W. BROADWAY

NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

Seal-tight liquid putty at \$1.25 per gallon.

METROPOLITAN MATERIAL CO.
1392-1414 Metropolitan Ave., Brooklyn, N. Y.

LOUIS COHEN Window and Plate Glass

86 1st Avenue, NEW YORK CITY

Double Thick 16/24 for the Florist

A SPECIALTY. WRITE ME FOR PRICES.

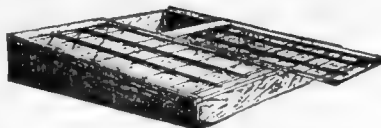


Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 CATALOG just out.

JOHN A. EVANS CO.
Richmond, Ind.

The Florists Hail Association rate of Insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address JOHN G. ESLER, Sec., Saddle River, N. J.



HOTBED SASH at 80c. each

Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.

Double Light Sash up to \$4.00.

We carry a large stock of all sizes.

Write us for estimate

S. JACOBS & SONS

1359-1385 Flushing Avenue BROOKLYN, N. Y.

Dreer's Peerless Glazing Points

For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No 2

GREENHOUSE GLASS

Double and single thick selected glass all sizes from 6x8 to 16x24. Ten boxes or more at wholesale prices.

ROYAL GLASS WORKS

120 Wooster Street NEW YORK CITY

GET OUR CATALOGUE

On Ventilating Apparatus and Greenhouse Fittings

ADVANCE CO., RICHMOND, IND.

When writing to advertisers kindly
mention **HORTICULTURE**.

Duplication Proves Satisfaction



Mr. P. H. Burton of Glenside, Pa., was so highly gratified by the results he achieved with his first Metropolitan Greenhouse, that he specifically instructed us to plan his new one identically the same as the other.

After a whole year of experience with Metropolitan construction, he decided that no change could possibly improve upon it.

His duplication proves his satisfaction.
We can do as well for you.

PUT YOUR GREENHOUSE PROBLEMS UP TO US

We go anywhere in the U. S.
to submit plans and prices.

METROPOLITAN MATERIAL CO.

Patented Greenhouses.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

GLASS

**GREENHOUSE MATERIAL
HOT-BED SASHES**

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

PATENTS

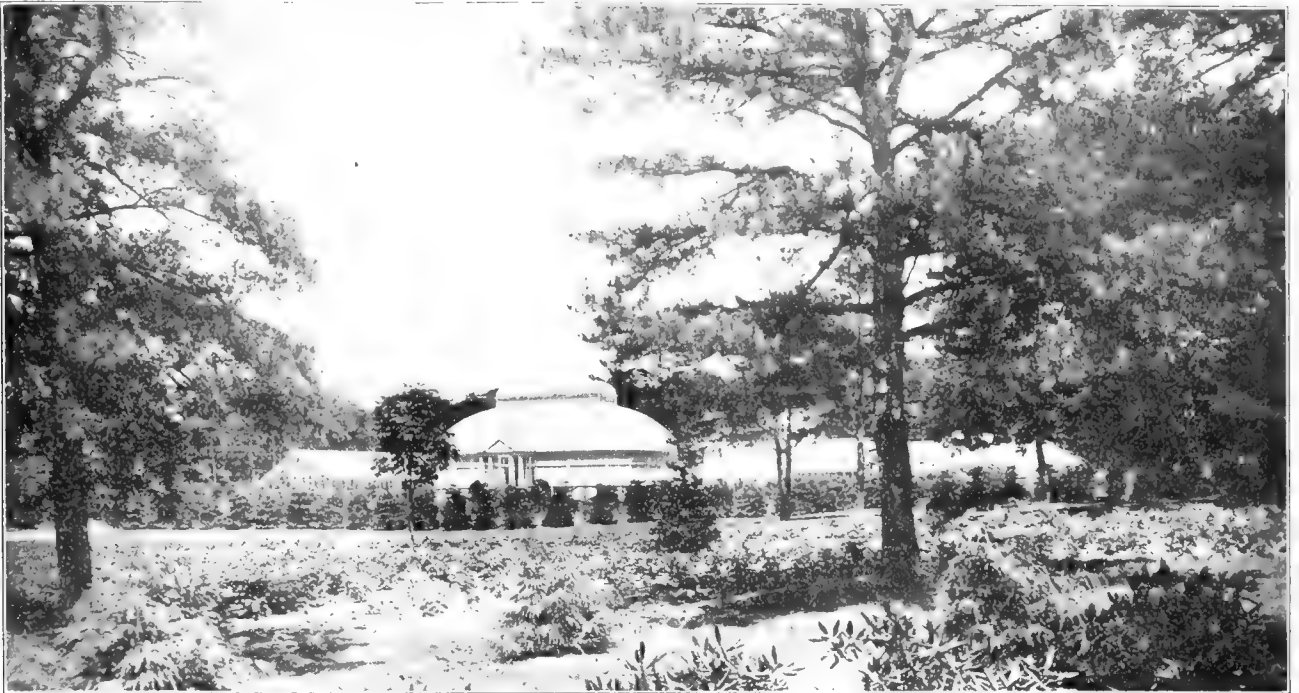
Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

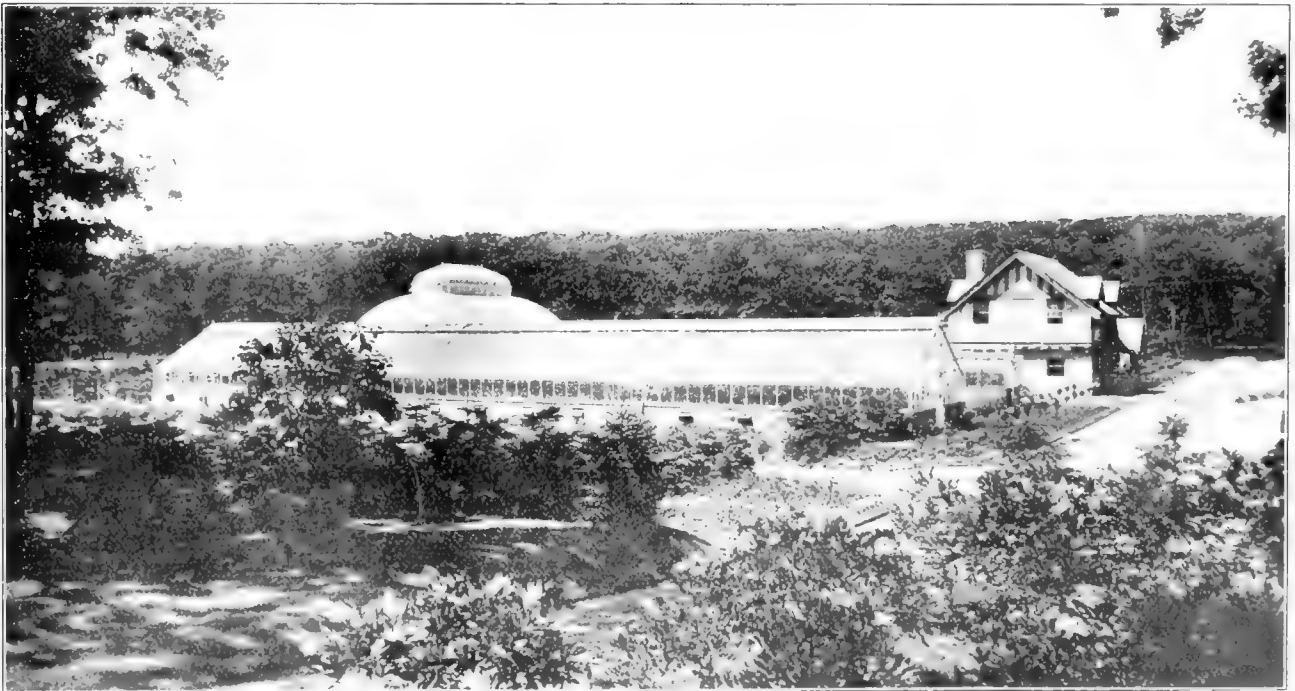


ERECTED ON GALEN L. STONE ESTATE, MARION, MASS.

This is an unusually compact and well planned range of houses, and considered the largest MODERN range of glass in the STATE of MASSACHUSETTS, located in the HISTORIC CAPE COD section at MARION, MASS. It is one of the show places of that neighborhood. THERE is a certain distinctiveness to LUTTON HOUSES that is always firmly established in the minds of the visitors. It is our infinite detail and attention to perfecting the greenhouse that has made the LUTTON REPUTATION. We want

to tell you about our work and how much it differs from our competitors.

If you are coming to NEW YORK, be sure and inspect our greenhouse erected complete in the largest RAILROAD TERMINAL in this country, GRAND CENTRAL STATION, 12ND STREET, NEW YORK. To keep a fully equipped greenhouse right in the heart of NEW YORK for the benefit of our patrons is only another sample of our progressive methods.



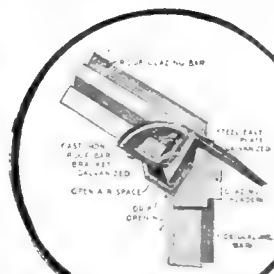
SIDE VIEW SHOWING PORTION OF SPLENDID POTTING HOUSE.

WILLIAM H. LUTTON COMPANY

Designers and Builders of GREENHOUSES, CONSERVATORIES AND MODERN GLASS STRUCTURES

Office and Works: JERSEY CITY, N. J.

In Writing Advertisers Please Mention HORTICULTURE.



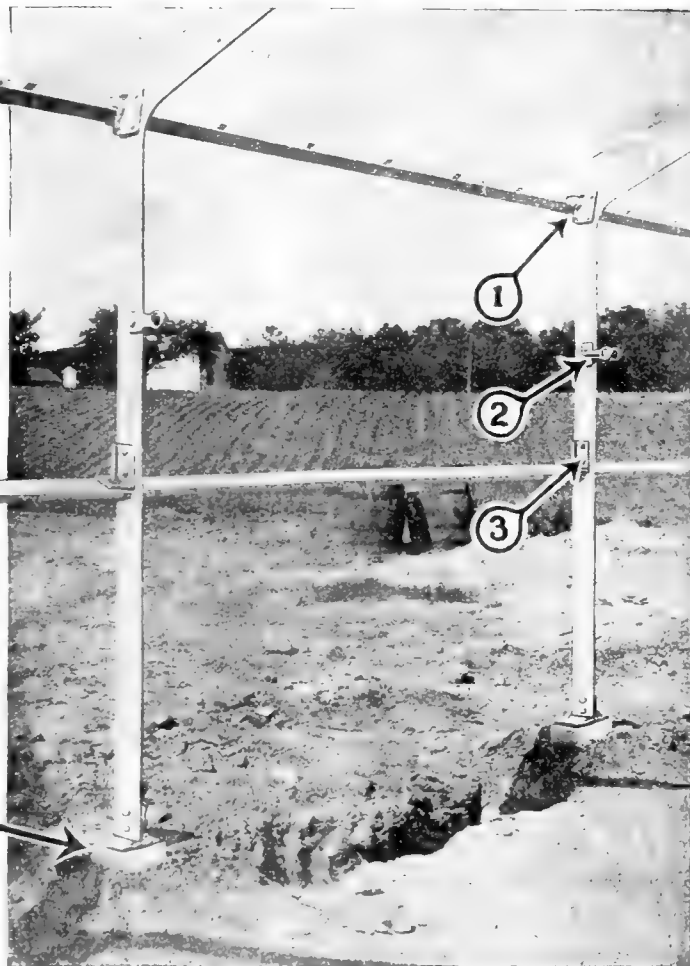
Notice how compact is this combined plate and drip gutter. No cumbersome fittings, no suspended gutter to add shade.



Sills secured to the rafter this way, combine to make an important rigid bracing feature.



The steel post is entirely above the ground, protected from destructive soil rusting. The base is cast iron which will last almost forever without rusting out.



Some Construction Things As They Are

NEXT to seeing a thing itself, is the seeing of the photograph itself. Here, then, is the next best of our side construction, plainly showing several vital construction points.

Number 1 calls attention to the good, sturdy fitting that firmly secures the eave plate to the post and rafter. It also points to the point that there is no heavy splice plate at this point. The post and rafter are in one solid piece, making a neat job, a light job and a strong job.

Number 2 points to the ventilating shaft bearer we use instead of punching an inch hole in the post to carry it. That hole may or may not seriously weaken the post, but we are certain sure that these two quarter inch bolt holes don't.

Number 3 calls your attention to the way the cast iron sill is secured to the post—one such fitting on each side.

Now look at the details in the circles for still further points of view. Every single member of any importance in our entire construction, we would like to both tell and show you about.

Nothing would please us better than to sit down with you and compare point by point, our construction, with any or all the constructions you wish.

We have a notion it would be decidedly interesting to both of us. It might even result in saving some money for you and making a little for us.

You know we go anywhere for business. Or to talk business.

Hitchings and Company

NEW YORK
1170 Broadway

BOSTON
49 Federal Street

PHILADELPHIA
40 S. 15th Street

General Offices and Factory, Elizabeth, N. J.

Vol. XXIV
No. 26
DEC. 23
1916

HORTICULTURE



View in the Rhododendron Ravine, Highland Park, Rochester.

One of the Benefactions of the Ltr. Wm. C. Barry

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription, \$1.00

New Carnation

ALBERT ROPER

This Splendid Production of the Late Albert Roper, previously known as No. 360, will be disseminated the coming winter. Color cerise; flower medium size: a very free rooter: long stiff stem; healthy good bloomer and free from splitting: "A real bread-and-butter Carnation," says William Nicholson.

Winner of the Silver Medal at the Boston Spring Show, 1916

ROOTED CUTTINGS \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rate

Orders taken now will be filled in rotation

ALBERT ROPER ESTATE,

**TEWKSBURY
MASS.**

MARK ROPER, Administrator

CARNATIONS

Field Grown

ENCHANTRESS SUPREME, EUREKA
WHITE WONDER, PINK DELIGHT.

\$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL,
MATCHLESS.

\$7.00 per 100; \$55.00 per 1000.

LADY NORTHCLIFF, PINK WINSOR,
WHITE WINSOR.

\$6.00 per 100; \$50.00 per 1000.

WOOD BROS., FISHKILL,
N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

CHARLES H. TOTTY

CHRYSANTHEMUMS
MADISON, N. J.

A. N. Pierson, Inc.

CROMWELL, CONN.

Bedding Plants and Roses

WHITMANII IMPROVED—\$5 per 100, \$40
per 1000.

WHITMANII COMPACTA—\$5 per 100, \$40
per 1000.

ROOSEVELTS—\$5 per 100, \$40 per 1000.

BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

CHRYSANTHEMUM ALEX. GUTTMAN

The best Early Lavender-Pink in the
Market. Blooms have been selling for \$8.00
per dozen since middle of September. Stock
Plants, 75c. each, \$7.50 per doz.

GUTTMAN & RAYNOR, INC.
Wholesale Florists

101 West 28th St., New York, or FRANK
DINDA, Farmingdale, N. Y.

CHRYSANTHEMUMS

NEW FOR 1917

**SMITH'S IMPERIAL
OCTOBER HERALD
YONDOTA**

HELEN LEE

DECEMBER QUEEN

NEW POMPON

LITTLE GEM

ANEMONE

THE CREST

Also all the best varieties now in commerce.

Ask for preliminary list.

ELMER D. SMITH & CO., ADRIAN
MICH.

JULIUS ROEHRS CO.

HEADQUARTERS FOR

Choice Flowering and Foliage Plant Stock

FOR IMMEDIATE OR FUTURE DELIVERY

Conservatories stocked

Rare Orchids a Specialty

Send for Catalog

RUTHERFORD, - - NEW JERSEY

LILIUM GIGANTEUMS, 7-9 in. and 9-10 in.

For Immediate Delivery. Write for Prices

THE YOKOHAMA NURSERY CO., Ltd.

Woolworth Building, - NEW YORK

ORCHIDS

Francisco Delgado O.

Orchid Collector

Solicits orders for shipments of Orchids,
Prices quoted upon application.

BOGOTA (Chapinero) COLOMBIA

GLADIOLI

New Catalogue Ready

JOHN LEWIS CHILDS, Inc.
FLOWERFIELD, L. I., N. Y.

GERANIUMS

We have the best stock in better condition than we have ever had, and are in a position to take care of your orders in fine shape.

ALPHONSE RICARD, BEAUTE POITEVINE, JEAN VIAUD, EDMOND BLANC and SCARLET BEDDER, \$2.00 per 100, \$20.00 per 1000 for 2-in.; \$3.00 per 100, \$30.00 per 1000 for 3-in.

S. A. NUTT, GENERAL GRANT, MAD. BUCHNER, MAD. RECAMIER, JEAN OBERLE, ABBIE SCHAFFER and E. H. TREGO, etc., \$2.00 per 100, \$18.50 per 1000 for 2-in.; \$3.00 per 100, \$18.50 per 1000 for 3-in.

BOSTON FERNS

7-in., \$6.00 per doz.; 8-in., \$1.00 each, \$9.00 per doz. Large Plants, in 11 and 12-in. pots, from \$2.00 to \$5.00 each.

ACALYPHA, \$2.00 per 100, \$20.00 per 1000 for 2-in.; \$3.00 per 100, \$30.00 per 1000 for 3-in.

ASPARAGUS SPRENGERI, \$5.00 per 100 for 3-in.

ALTERNANTHERA, AGERATUM, BEGONIAS, COLEUS, CUPHEA, HARDY ENGLISH IVY, HELIOTROPE, LEMON VERBENAS, LANTANAS, MOONVINES, PARLOR IVY, PETUNIAS, POMPON CHRYSANTHEMUMS, SALVIA BONFIRE and ZURICH, SWAINSONA, white, \$2.00 per 100, \$18.50 per 1000 for 2-in.; \$3.00 per 100, \$30.00 per 1000 for 3-in.

Rooted Cuttings of the following: Coleus, 10 varieties including Golden Bedder and Verschaffeltii; Heliotrope, Chieftain, Ageratum Blue and White, \$0.75 per 100 post paid, \$5.00 per 1000 by express not prepaid.

CASH WITH ORDERS.

R. VINCENT, Jr., & SONS CO., WHITE MARSH, MD.

Order Now

SPRING, 1917, DELIVERY of BOXWOOD, HARDY AZALEAS and RHODODENDRONS, LAURUS Cerasus, Bushes and Pyramids; AUCUBA, small EVERGREENS, CLIMBERS, MAGNOLIA in sorts, etc., etc., all from the

TERRA NOVA NURSERIES, Aalsmeer, Holland

Send for list of cost at foreign nursery, and information on average expenses to lay down, f. o. b. New York. Address the American Representatives:

AUGUST RÖLKER & SONS, 51 BARCLAY STREET, New York
or P. O. BOX 752

LILY BULBS

RALPH M. WARD & CO.
71 MURRAY ST., NEW YORK

When writing to advertisers kindly mention **HORTICULTURE**.

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

CHAS. SCHWAKE & CO., Inc.

Valley

GERMAN, SWEDISH
AND DUTCH PIPS

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page
Advance Co.....863	Cowee, W. J.....854	Gude Bros. Co.....850	Lange, H. F. A.....851	Poehlmann Bros.
Albany Cut	Craig, Robt. Co.....836	Gunter Bros.....857	Lemon Oil Co.....847	Co.....854
Flower Ex.....856	Crawbuck, Geo.	Guttman & Ray-	Leonard Seed Co.....849	Pulverized Ma-
Allen, J. K.....857	W. Co.....857	nor.....834-856	Lord & Burnham	nure Co.....847
Allen, Wm. Stu-	Dunker, F. A.....850	Hail Association.....863	Co.....864	Randall's Flower
art.....857	Dards.....850	Hammond Paint	McHutchison &	Shop.....851
American Bulb	Davenport, A. M. 856	& Slug Shot	Co.....836	Reed & Keller.....854
Co.....849	Delgado Q. Fran-	Works.....847	McManus, Jas.....856	Riedel & Meyer.....856
Anderson, S. A.....851	cisco.....834	Hart, Geo. B.....856	McConnell, Alex.....850	Reid, Edw.....854
Aphine Mfg. Co.....847	Dinda, Frank.....834	Henderson, A. &	Marshall, W. E.	Routers.....851
Badgley & Bishop,	Dorner, F. &	Co.....849	Co.....849	Robinson, H. M.
Inc.....856	Sons Co.....834	Hentz & Nash.....856	Meconi, Paul.....857	& Co.....857
Barrows & Son.....834	Dreer, H. A.....862	Hess & Swoboda.....851	Metropolitan Ma-	Robinson, H. M.
Bayersdorfer, H.	Dunlop, John H. 851	Hews, A. H. &	terial Co.....862-863	Co.....856
Co.....853	Dysart, Robert.....850	Co.....862	Michell, H. F.	Roehrs, J. Co.....834
Bay State Nur-	Eastern Chemical	Hill, E. G. Co.....854	Co.....848	Roland, Thomas.....851
series.....836	Co.....847	Hill, D. Nursery	Michigan Cut	Rolker, A. &
Beechwood H'ghts	Edwards Folding	Co.....836	Flower Ex.....854	Sons.....835
Nurseries.....857	Box Co.....854	Holland Nurser-	Millang, Chas.....856	Roper Estate, Al-
Bobbink & At-	Elliot, Wm. &	ies.....836	Murray, Samuel.....850	bert.....834
kins.....836	Sons.....847	Holm & Olson.....851	Nason, L. B.....857	Rosery, The.....852
Roddington, A. T. 848	Ernest, W. H.....862	Howard & Smith.....852	National Nur-	Royal Glass Co.....863
Boligiano & Son.....849	Esler, J. G.....863	Irwin, R. J.....849	serman.....836	Seery, Edward.....852
Breck, J. & Sons.....849	Evans, J. A. Co.....862	Jacobs, S. &	N. E. Florist Sup-	Schling, Max.....850
Breitmeyer's, J.	Eyres.....851	Sons.....863	ply Co.....855	Schwake, Chas.
Sons.....850	Farquhar, R. &	Kasting, W. F.	Nicottee Mfg.	Co.....835
Budlong, J. A.....854	J. & Co.....849	Co.....854	Co.....847	Sharp, Partridge
Bunyard, A. T.....850	Foley Mfg. Co.....863	Keller, J. B. Sons.....852	Niessen, Leo Co.....854	& Co.....863
Burnett Bros.....849	Ford, W. P.....856	Kelway & Son.....849	Nut Grower.....861	Sheridan, W. F.....856
Burpee, W. A. &	Ford, M. C.....856	Kerr, the Florist.....851	Outwerkerk, P.....836	Siebrecht, Geo. C.....856
Co.....849	Fottler, Fiske,	Kervan Co.....856	Palmer, W. J. &	Siebrecht, W. R.....856
Carter's Tested	Rawson Co.....848	King Construc-	Son.....851	Siggers & Sig-
Seeds, Inc.....848	Froment, H. E.....856	tion Co.....863	Park Floral Co.....852	gers.....863
Childs, John	Galvin, Thos. F.....851	Knoble Bros.....851	Parshelsky Bros.....863	Skidelsky, S. S.
Lewis.....834	Gasser Co., J. M. 851	Koloos, A. & Co.....836	Pennock - Meehan	& Co.....849
Clarke's D. Sons.....850	Graham, Adam &	Kramer, F. H.....851	Co.....835	Silnn, B. S., Jr.....857
Coan, J. J.....847	Son.....851	Kroeschell Bros.....862	Penn the Florist.....850	Smith, Elmer D.
Cohen, Louis.....862	Grey, Thos. J.	Kuebler, W. H.....856	Pierce Co., F. O.....863	& Co.....834
Cooke, Geo. H.....850	Co.....849	Landreth Seed	Pierson, A. N.....834	Smith, P. J.....856
		Co., D.....848	Pierson, F. R.....836	

FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 858, 859, 860, 861

A. KOLOOS & CO.**WRITE TODAY****WRITE TODAY**

Now is the Time to Order Your Plants and Shrubs to Secure Early Spring Delivery

Such as Azalea, Aucuba, Boxwood, Blue Spruce, Conifers, Clematis, Hydrangea, Lilacs, Laurels, Japanese Maples, Roses, Rhododendrons. American Hardy varieties one of our specialties, and all other Hardy shrubs for forcing or outdoor.

ROSES, Bush, Tree and Climbers in more than 300 sorts, including the leading and new up to date varieties are offered by us.

LET US QUOTE YOU ON YOUR LIST OF WANTS.

Copy Wholesale Catalogue 1917-18 Free on Application from

MR. L. VANHEERDE, c/o Maltus & Ware, 14 Stone St., New York

WRITE TODAY**WRITE TODAY****EXPORT NURSERIES****TREES**

Largest assortment in New England. Evergreens, deciduous trees, both common and rarer varieties. Sturdy, choice stock that can be depended upon. Send for catalog and special trade prices.

The Bay State NurseriesNorth Abington
Mass.**SHRUBS**

This New England soil and climate produces fine sturdy shrubs. Special trade prices. By the thousands, hardy Native and Hybrid Rhododendrons—transplanted and acclimated. Let us estimate.

ENGLISH IVIES

3 in., \$8.00 per 100; 3½ in., \$10.00 per 100; 4 in., \$12.00 per 100

SMALL FERNS FOR DISHES

Plenty of Holly and Aspidium 2¼ in., \$4.00 per 100; \$35.00 per 1000. Adiantum rhodophyllum and cuneatum, 3½ in., very strong plants, \$8.00 per 100.

A. M. DAVENPORT, Watertown, Mass.

JAP LILY BULBS

At Import Prices

GIGANTEUM,	7-9, 8-10, 9-10, 10-11.
MULTIFLORUM,	7-9, 8-10.
AURATUM,	7-9, 9-11.
ALBUM,	9-11.
RUBRUM,	7-9, 8-10, 9-11.
MELPOMENE,	9-11.

Giganteum, 7-9, 8-10 and 9-10 also offered F. O. B. Chicago and London, Ont. Write for prices and details, stating quantity desired.

McHutchison & Co.

THE IMPORT HOUSE

95 Chambers St., New York

F. R. PIERSON CO.FLORISTS AND
PLANTSMEN

TARRYTOWN-ON-HUDSON, - N. Y.

ROBERT CRAIG CO.**ROSES, PALMS,**

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

Little Ads. That Bring Big Returns

Little Ads. in our Classified Buyers' Directory bring big returns to both advertiser and purchaser.

Anything wanted by florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium.

THEY COST ONLY ONE CENT
A WORD UNDISPLAYED

Don't fail to read over these Ads. in each issue and you may find one or more that will prove profitable to you.

THE National Nurseryman

The oldest and best established journal for nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.50 per year. Foreign subscriptions, \$2.00 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
HATBORO, PA.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.**HOLLAND NURSERIES**

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St., Woburn Heights
P. O. No. 1, Hoboken N. J.

HILL'S EVERGREENS

BEST FOR OVER HALF A CENTURY. Small, medium and large sizes supplied. Price list now ready.

THE D. HILL NURSERY CO.
Evergreen Specialists. Largest Growers in America.

BOX 415, DUNDEE, ILL.

BOBBINK & ATKINS

Nurserymen, Florists
and Planters

RUTHERFORD, NEW JERSEY

In Writing Advertisers
Kindly Mention
HORTICULTURE

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toll, we ought to blame the culture, not the soil."—Pope.

Care of Manure

One of the important problems is to conserve as much of the fertility as possible, and still produce good crops. There are two ways by which the fertilizing value in manure is lost; first by heating, and second by leaching. If manure is left in piles until 85 degrees is reached, it soon begins to heat, even in winter, especially if it contains any large proportion of horse manure. When it heats, the manure is decomposed and the element of most value, nitrogen, is lost in the form of gas. If manure is lying about the yard where rain can fall on it, much of the fertility is leached out and carried away. Give heed to this and always see that stable manure is given proper protection.

Gardenias

The soil must never become either pasty or dust-dry; either condition will cause loss of buds and yellow foliage. The aim should be to keep an even moisture at the roots. The minimum temperature should never be lower than 65 degrees and a good fire heat to maintain a buoyant atmosphere will now be a necessity. The night temperature as a rule should now be 68 to 70 degrees and the atmosphere should be moist. Let the thermometer reach 75 degrees before ventilating; then air a little at a time until 85 degrees is reached, reducing it in the same way. The plants, on every clear day, should have a thorough spraying to keep mealy bugs in check. Go slowly on feeding. A good plan is to give occasional light top-dressing of fine cow manure, in preference to using manure water. During February and March you can use manure water with better success.

Giganteum Lilies for Easter

As soon as the shoots are well above the soil, place the pots on the bench in a warm house, in 60 to 68 degrees at night. Avoid too much water until the pots are full of roots. Giganteums need heat from the start, and must have it or they will not flower on time. If you start cool, the chances are that you will get a larger percentage of sickly plants and will then blame the dealer for selling you diseased stock. Remember you must see the buds six weeks before Easter to be sure they will be on time. It is always well to have them a trifle early, as it is better to hold them a few days in a cold house to stiffen up the flowers than to force them hard the last few days to open the blooms. Of course all do not flower together, and, while some may need retarding, others will probably need heat right up to the last.

Next Week:—Care of Sweet Peas; Forcing Dahlias; Geraniums; Oncidiums; Propagating Carnations; Reminders.

Hydrangeas

French hydrangeas started now in a temperature of 50 degrees will flower in March and prove useful. Also late-propagated Otaksa to be flowered with a single large head each, can be put in heat now. The French varieties bloom so much better early in the season that they have practically superseded H. Otaksa. However, the latter will still be grown in great numbers for later flowering and is still without a rival for tubs for lawn, piazza or other uses. It is better not to subject such plants to a temperature as low as freezing, as is often recommended. It is far better to let them hold all their foliage. Avoid leaving hydrangeas too long in frames or pits from which frost cannot be excluded. The French varieties are somewhat more tender, and even a little neglect here may cause a loss of all the terminal buds.

Schizanthus

Seeds sown now will make nice plants for spring flowering. Sow in a flat and pot off singly. In addition to their beauty as decorative plants, schizanthus flowers last wonderfully when cut. The best variety for pot culture is Wisetonensis. The earliest sowing is now well established in 6-inch pots and already the plants have some flowers open. With the pots full of active roots, they must have lots of water, in addition to feeding twice a week. If much heat is given, the shoots will become weak and leggy and the flowers will lack substance. A temperature of 45 degrees at night is sufficiently high and the plants should be well up to the glass. As they are rather brittle they must have at least one stake each to prevent this breaking off near the pot. Give plenty of ventilation whenever possible and see that they have room between the pots. Fumigate every ten days.

Reminders

Endeavor in all decorative work to arrange something novel or original.

When a plant is sold from the show house always replace it with another at once.

Always have a few freezias in the store when in season, on account of their delicious perfume.

A few notes made regarding the business done at the holidays will be a great help at next Christmas.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached
by this paper is THE SORT OF PUBLI-
CITY THAT PAYS.

Cyclamen

The giant-flowered strain of *Cyclamen* is undoubtedly the best, for general decorative purposes. To have them in flower by Christmas the seed should be sown the latter part of August or first week of September, and for Easter sow at any time from 20th to end of November. Prepare a light open compost of loam two parts, leaf mold one part and one-fourth part sand, which mix thoroughly, and sift through a half-inch sieve.

See that the pans are clean and well drained, and then fill them to within an inch of the top with the compost, press it down medium firm with a smooth surfaced board, and water well, let drain off, then sow the seed, and cover same with about three-eighths of an inch of the compost, shaken through a fine sieve.

Place the pans on a shelf, and cover with a sheet of glass and paper to exclude the light. A temperature of 60 to 65 degrees at night should be kept up, and as soon as the seedlings appear, remove the covering and afford them all the light possible, shading from the sun. As soon as the third leaf is developing transfer the young plants into flats containing a compost of loam three parts, leaf mold one part and a half part cow manure, charcoal and sand; allow two inches space between the plants. Maintain the same temperature until the plants get established, then remove them to 55 to 60 degrees at night. As soon as the plants are large enough pot them into 4-inch pots, using similar compost, adding a half more cow manure. Be careful to leave two-thirds of the corm above the surface, as deep potting means failure in the growing of cyclamen.

When fairly well established, reduce the temperature five degrees. By the second week in May move them to a cold frame, protecting from late frosts, and shading from the sun, with plenty of ventilation when possible. Shift next into six-inch pots using a fairly rough compost of loam three parts, cow manure one part, leaf mold a half part, charcoal and sand, and to each barrow load of compost add a 5-inch pot of bone meal. After potting, place them back in cold frame, spray overhead twice per day, and water carefully, shading them from the sun.

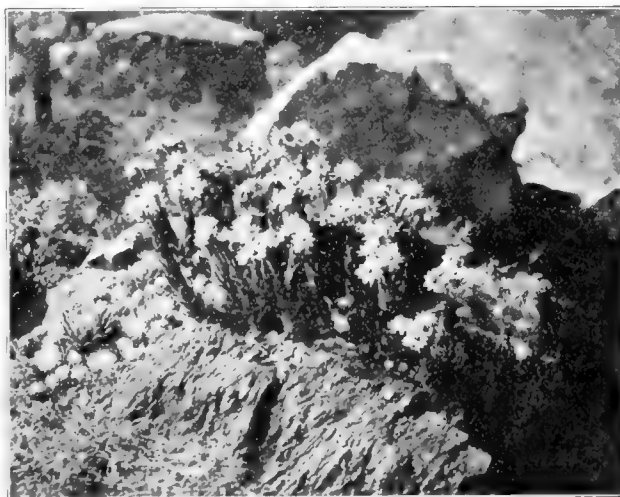
By September the plants intended for Christmas should be moved indoors. Those that are intended for Easter may remain in cold frame until first week of October if well protected on cold nights.

The mite is a troublesome pest in cyclamen growing, but it can be kept in check if the plants are sprayed once in every ten days with X. L. All compound, one part to fifteen parts water, from the time they are in 4-inch pots until they come into flower, also by placing tobacco stems amongst the pots while in the cold frame, but above all, a low temperature, and a cool bottom for the pots to stand on and spraying overhead with clear cold water on bright days, goes a long way in keeping down this pest. When well-rooted in the six-inch pots, give the plants liquid cow manure twice a week alternated with Clay's fertilizer. As soon as the flower buds show color stop spraying overhead, and water carefully.

John S. Darg

Southboro, Mass.

Sempervivum



SEMPERVIVUM ARACHNOIDEUM

Sempervivums, though more or less known to every horticulturist, until recently could rarely be found except in plant collections of amateurs or in botanical gardens. The general trade was not interested in house leeks. Since the beginning of dry wall planting and the steadily increasing rockgarden building matters have changed and sempervivums are at present one of the standard items in hardy plant catalogues. The renewal of our acquaintance with those modest plant species nestling between the stonework of walls or in the crevices of rocks makes us again wonder how they can exist and grow in so little of soil as they usually require. Nature, indeed, has fitted them out with a most wonderful resistance both against prolonged aridity in summer and the inclemency of frigid winters. Today the rockery, perhaps more than the dry wall, offers these strikingly attractive mountain denizens ideal conditions for perfect development. For a minimum of care we may enjoy the quaint picture of a plantation in full bloom such as represented by our illustration. The photograph was taken during the past summer in the writer's rockgarden in Glenside, Pa. *Sempervivum arachnoideum*, a native of the Alps, is distinguished by the cobwebby hair connecting the tips of the leaves of the inner part of the rosettes. The comparatively large blossoms in bright reddish pink are borne on thick stalks, three to four inches high. Being in flower during July and August they add to the floral mid-summer effect of rockeries in a perceivable degree.

Best known and easily obtainable sempervivums, besides the species mentioned, are *Sempervivum Amaliae*, *Reginae*, *robustum*, *soboliferum* and *tectorium*. Desirable varieties distinguishable by brownish colored rosettes are *Sempervivum rubens*, *triste* and *violaceum*. Propagation is by offsets, leaf-cuttings and spring sowings of seed.

Richard Rothe

Glenside, Pa.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

The Propagating Benches

As soon as these are properly cleaned top and bottom, and underneath, they should receive a good dose of whitewash, to which can be added a little copper sulphate, or bluestone as it is called. This will act as a fungicide and will enable the lime to make a much better job of the cleaning. Following the whitewashing the fires can be started if separate boilers are installed to care for the propagating house. After this the sand can be brought in. This should be screened free from all small pebbles. It should not be too fine nor too coarse, but medium grade such as would be used by masons in plaster, clean and sharp. The benches should be filled so that when the sand is packed down it will be about four or five inches in depth. Make sure that all holes in the bench bottom are stopped up with moss or the sand will run through as soon as water is applied. For bench bottom we like nothing better than slate, although there are thousands of roses rooted on wood bottoms. As long as the bottom will give good drainage and let enough heat through, it will answer. As soon as the benches are filled, a good watering should be given, first making sure that the sand is leveled off properly. After this the sand should be well packed with a brick or some wooden tool made for the purpose. Care should be taken to pack the sand evenly and not to strike too hard in any one place and it should be gone over three or four times until it is very smooth and firm. Thermometers should be placed in the sand every twenty feet or so, and there should be a thermometer for every ventilator overhead. There should also be cheese cloth or muslin curtains provided, extending from the edge of the bench to the glass if the house is low, or else the muslin should be stretched over a frame built over the bench if the propagating is done in a big house. There should also be a piece of cloth across the bench every here and there to break all air currents as much as possible.

Shading

Before the house will be ready for cuttings, attention will have to be given to shading it, so that there will be no danger of the sun's rays working through anywhere and hitting the cuttings, causing them to wilt the least bit, for once they wilt it will be all over with them, as they will never root. One cannot be too careful therefore when applying shading. Lime should not be used as it will destroy the paint on the woodwork. There are concerns that manufacture greenhouse shading and this shading is ideal to use. If none is on hand some can be made at home of white lead and kerosene or whiting and kerosene, adding a little drier to set it quicker. Gasolene would be better, but it is much more expensive. Add a little green paint to the mixture to

give the shading a greenish tone. This will reduce the light a great deal and will be better for the cuttings and look better on the outside as well as inside. The shading should be applied with a brush to insure proper distribution, this not always being possible with a spray pump.

A Cross House as a Propagator

Many plants are started in cross houses and if no better house is to be had, a cross house can be made to do. If possible select the one that is used the least for walking, so that the cuttings will not suffer from draft and jarring of the doors as they are opened and closed. This may seem very small, but the doors are often slammed and the vibration is none too good for the cuttings. The trouble with most cross houses is that they usually have far too much heat, and if this is the case in the one selected, the mains and, as many of the pipes as necessary should be covered over with asbestos, or if looks are no consideration ordinary newspaper can be used. Be careful to keep enough pipes under the benches uncovered to give the proper amount of heat. The bench to be used for propagating should be boarded in on the sides so that all heat will have to go through the sand. Doors should be left all along so that the heat in the sand can be controlled by opening or closing the same. Should there not be sufficient ventilation some glass can be taken out on the side and cloth substituted. This cloth can be sprayed with water during real cold weather, and will freeze stiff, thus being as tight as the glass would be, at the same time letting air in and out during the mild days when air is necessary to keep the house cool enough. If the cross house was never used before it will be best to test it out thoroughly before chancing any cuttings in the sand. To do this have a thermometer every ten feet in the sand and every ten feet overhead, to see just how the temperature runs. If it is very uneven, pipes will have to be uncovered in the cold spots, and covered up where the temperature exceeds the required point.

Temperatures

We find it best to run the thermometer around 66 degrees F., in the sand, with as near 50 as possible overhead. The low overhead temperature will keep the top eyes from starting and this is necessary so that all the energy will be given to making roots. Some growers propagate right in a rose house having a high overhead temperature. The cuttings may root well, but the plants will never have the vitality of cool propagated stock, and in the long run it will pay to go to a little extra trouble and have everything just so in the propagator, as next season's profits largely depend on the plants that will be turned out now. With the high cost of everything nowadays, every plant must be a thoroughbred or there will be money lost. There is nothing in growing poor stock except a lot of hard work, and a deficit at the end of the year. Get the cuttings as good as possible.

HORTICULTURE

VOL. XXIV

DECEMBER 23, 1916

NO. 26

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.
147 Summer Street, Boston, Mass.

Telephone, Beach 292.

WM. J. STEWART, Editor and Manager

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—View in the Rhododendron Ravine, Highland Park, Rochester.	
NOTES ON CULTURE OF FLORISTS' STOCK—Care of Manure—Gardenias—Giganteum Lilies for Easter—Hydrangeas—Schizanthus—Reminders— <i>John J. M. Farrell</i>	837
CYCLAMEN— <i>John Doig</i>	838
SEMPERVIVUM— <i>Richard Rothe</i> —Illustrated.	838
ROSE GROWING UNDER GLASS—The Propagating Benches—Shading—A Cross House as a Propagator—Temperatures— <i>Arthur C. Ruzicka</i>	839
CLUBS AND SOCIETIES—Gardeners' and Florists' Club of Boston—Sewickley Horticultural Society—Society of American Florists—American Rose Society—Minnesota Horticultural Society—Nassau County Horticultural Society—American Carnation Society—Club and Society Notes.	842-843
OBITUARY—Daniel Stilphen—Charles Elbrecht—Charles W. Prescott—The Late Wm. C. Barry.	844
DURING RECESS—Lancaster County Florists' Club Annual Banquet—Washington Florists' Bowling.	844
SOILS— <i>Leonard Macomber</i>	845
MARYLAND WEEK	846
SEED TRADE—One Week's Imports—M. Van Waveren & Sons, Ltd.	848
OF INTEREST TO RETAIL FLORISTS:	
New Flower Stores—The F. T. D. Busy.	850
Flowers by Telegraph	851
NEWS ITEMS—Boston, Washington.	853
FLOWER MARKET REPORTS:	
Boston, Buffalo, New York.	855
Philadelphia, Washington	857
MISCELLANEOUS:	
Orchid Cultural Notes.	841
Chrysanthemum Hamburg Late White—Illustrated.	841
The Bagatelle Rose Garden.	841
Sense and Sentiment.	841
Publications Received	844
Holland Growers to Discontinue Auction Consignments	845
A Dwarf Lemon for Florists' Use—Illustrated.	845
National Forests and National Parks.	847
News Notes	862
Catalogues Received—New Corporations.	848
Carnations at S. J. Goddard's.	852
Snow Blocked the Evergreen Raid.	853
Visitors' Register	857
Greenhouses Building or Contemplated.	862
Patents Granted	862

Mr. Ruzicka, in his rose notes this week, strikes a responsive chord when he asserts that under existing conditions—the high cost of everything, etc.—there is nothing in growing poor stock except a lot of hard work and a deficit. As Mr. Ruzicka says, "every plant must be a thoroughbred or there will be money lost." Written more particularly for the attention of the rose growers this truth has equal application to the growers of carnations or any other class of plants raised for the florist trade. The thought impressed itself upon us when visiting the carnation houses of S. J. Goddard at Framingham a few days ago, as mentioned in another part of this paper. The flowers grown by Mr. Goddard are of a

quality that at once takes the carnation out of the cheap class of florists' stock and clothes it with a dignity that arrests attention and compels enthusiasm. Why are there not a greater number of carnation growers who make it their aim to produce blooms of the quality marketed regularly by establishments such as the one we have mentioned? All might not get there, for there are many local and incidental impediments not easily overcome, but with a more general exercise of the requisite amount of ambition, insight and endeavor, there can be no question that the quality of the stock seen in many wholesale marts might be materially advanced toward a higher standard and the returns from the sale of the goods increased accordingly.

Our news columns this week contain the announcement of the closing down for an indefinite period of a well-known middle-west flower pot factory because of the present cost of material, the exactions of labor, etc. The Walworth Mfg. Co., of Boston, commenting upon the continued advance in cost of raw materials entering into the manufacture of heating apparatus, give the following comparison of prices of today with those of Dec. 1, 1914:

	1914	1916
Pig Iron, per ton.....	\$15.25	\$28.25
Bar Steel, per 100 pounds...	1.20	2.90
Sheet Steel, per 100 pounds..	2.85	4.90
Copper, per pound.....	.12½	.33½
Zinc, per pound.....	.053	.16

A prominent dahlia grower in a western city, acquaints the trade and the public with the fact that with the exception of postage stamps, everything connected with the management of his business—from the tools used in the production of the crops, to the paper on which the finished product is billed, has advanced in price from 20 per cent. to over 100 per cent. in the past year or two while he is quoting the same prices as heretofore. To have a working profit left over, he states, will require more care in extending credit to persons unknown and also to those who in the past have been negligent in meeting their obligations when due. The foregoing facts hardly fit in well with the boasted prosperity of which we hear so much. Concerns such as the Walworths and others who can "pass it along" to their customers need not suffer and may benefit from existing conditions, but there are others, many of them, who find it quite impracticable to do so and among these are certainly the florists and nurserymen.

HORTICULTURE voices a loud "me too" in accord with the dahlia grower above quoted. The cost of paper alone has advanced more than 100 per cent., yet our subscription and advertising rates remain as they were before this great wave of "prosperity" struck in. To continue thus we need the co-operation and kindly consideration of our friends to the extent of early subscription remittances and prompt settlement of advertising accounts together with all the increased business they can send us. Christmas is here and New Year's close by, and in wishing our subscribers and advertisers the Compliments of the Season we here seize the opportunity to suggest that by now carrying the foregoing advice into execution they will be doing a very welcome part towards assuring a wave of genuine prosperity for HORTICULTURE. With these timely hints we lay down our pencil and extend to one and all our sincere wishes for

A Merry Christmas

ORCHID CULTURAL NOTES.

By the time these notes appear in print many of the autumn flowering Cattleyas will have entered into a period of rest; it will be worth while to carefully look over them and attend to any of their requirements. Very often, when a flower is cut, the flower-sheath is left in a damaged condition, and even when a clean cut is made the base still remains, only to decay in the course of a few days. An opportunity now exists to inspect these Cattleyas and to remove all that is left of the old sheath, which can generally be done by pulling it gently away in the opposite direction to the leaf. As the old spike is often left as well, a good plan is to split the sheath and remove each half separately, thus well exposing the remains of the spike, which can be finally removed by means of a sharp knife. Insect pests are very fond of getting into the crevices, and are best removed by a small brush and suitable insecticide.

Some have the habit of tying up the bulbs far too closely, so much so that they are brought out of the perpendicular and make the top of the plant even smaller than the pot. This is a great mistake, for with the bulbs out of their natural position, the leaves also are wrongly exposed to the light, and if bright sunlight is allowed to fall on a portion of the leaf hitherto unaccustomed to it damage to the tissues is almost sure to result. On the other hand, the bulbs must not be allowed to hang down in a weakly style, hence the cultivator must use his discretion and arrange them in a natural as well as neat manner.

Many plants will require re-potting, or at least some attention will be needed in replenishing the food supply. Whenever new roots are to be seen pushing from the base of the last-made bulb this operation may be taken in hand with the least shock to the plant's constitution. In some cases almost the whole of the old compost will have to be removed, but in the majority of well-cared-for plants the chief need will be a slightly larger pot with fresh compost to fill up the extra space. A few plants will only require the surface to be picked over with a small pointed stick, and any weak places filled up with compost. It is of little use surfacing with moss those plants that will be kept on the dry side for the next few months, but the smaller ones, which have not flowered and are making a second growth, often receive beneficial support by adding living heads of sphagnum moss around the edge of the pot. All potting fibres have considerably advanced in price, and some are unobtainable at any figure, consequently many plants that in normal times would be repotted this season will have to wait until the following one.

Temperatures will now be considerably lower, except in the houses where seedling Cattleyas are being raised. A minimum night temperature of 65-70 will be found suitable for Cattleyas, with 55-65 for *Odontoglossums* and other cool-house Orchids. No matter how a house is constructed, there is some difference to be found in the temperatures when taken at various positions, hence the cultivator has many places to select for his plants, and if they fail to grow well in one situation removal to another place will often

CHRYSANTHEMUM HAMBURG LATE WHITE



One fault with the so-called White Maud Dean chrysanthemum is that it is not pure white but has more or less of a lavender tinge. Four years ago there was found amongst the stock of C. T. Guenther, Hamburg, N. Y., a plant which produced a pure white flower. Cuttings were taken from this plant and the flowers kept the same pure white color and Mr. Guenther now has several thousand plants in bloom.

The variety will be called "Hamburg Late White" and is pure white under all weather conditions. The

variety has been grown for the past three years and when taken on a late bud will be in flower all during December and the early part of January; in fact, the flowers are generally so late that it cannot be shown at the exhibitions or during time when committees of the Chrysanthemum Society of America meet. Keeping qualities are excellent and being somewhat fuller than the original Maud Dean it forms a very graceful white flower.

This variety will be disseminated in Spring 1917, by William F. Kasting Co. and E. G. Hill Co.

bring about the desired good result. Frequently it will be found that certain plants grow well at the warm end of an *Odontoglossum* house when they fail in the cool part of the Cattleya house, although the temperature of both positions may be almost identical; the reason for this is that there is a vast difference in the humidity or circulation of the atmosphere. Practical experience alone will discover these suitable positions. Growers will do well to remember that plants suspended high up are in a very different atmosphere to those nearer the ground, both in temperature and in humidity; and here, again, the removal of a sickly plant from one position to the other may bring it back to a vigorous condition. Sunny positions as well as shady ones both have their value, and it only needs the thoughtful attention of the cultivator to decide which plants are most suitable for the one or the other. This may seem an unimportant point, but practice will prove its value to an unexpected degree.

—The Orchid World.

THE BAGATELLE ROSE GARDEN.

Calling attention to the editorial note in our issue of December 2d, in which we said that—

"We are informed that it is proposed by the Government of the City of Paris to establish in the Department of the Seine a 'Rose Concours' to continue for three years—1917-1919."

Mr. Robert Pyle, president of the

Conard & Jones Co., writes as follows:

"The point of similarity and dissimilarity leads me to believe that there has been a slight misconception of the exact situation, because the Government of the City of Paris *did* establish in the Department of the Seine a "rose concourse" about ten years ago. This was and is called the Bagatelle Rose Garden in the Bois de Boulogne, and the government of the City of Paris invited rose originators and raisers from all countries to send contributions, especially of their new seedlings. Furthermore, they invite representatives from each nation each year to be present at the time of the judging of the roses, etc., and it is my impression that the invitation from the City of Paris to which you now refer marks the continuation of this plan, which, much to their credit, has been kept up steadily even during the past two tragic years of the war.

"You may remember that I had the honor and pleasure of acting as the representative of The American Rose Society and was the only American present at the judging of the roses in this Garden in 1911, and it has been a great pleasure to me to keep in touch with their work ever since.

"I am very glad that you are calling the attention of American Rose Raisers to the opportunity of exhibiting in the Bagatelle, which up to this time has been the most noteworthy International Rose Garden on the globe, I believe."

CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The regular monthly meeting of the above Society was held at Horticultural Hall, Boston, on Tuesday evening, Dec. 19. The lecture of the evening was given by J. N. Keeler, Boston manager for Hitchings & Co. Eight new members were elected. It was decided that the annual banquet be held at Horticultural Hall on Feb. 7, 1917.

Mr. Keeler in his interesting talk explained that his concern divided private greenhouse construction into four distinct types: the straight roof gutter eave, the standard curved eave, the semi-curvilinear and curvilinear type. The gutter eave and curvilinear types are the oldest, then came the standard curved eave and finally the semi-curvilinear type of which more are being built now than any other.

The reason for the popularity of the semi-curvilinear type was described as being due to the fact that by its use one obtains continuous and direct side ventilation above the benches, extra high growing space over the side benches which is obtained by having the eaves curved to a 30-inch radius, the use of glass in lights 24-inch square and the generally fine proportions that houses of this newest type have.

The speaker pointed out that although other concerns followed their lead in building houses with curved eaves and side ventilation above the walls, they are still held to the 16 or 24-inch radius curved eaves and the use of 16-inch wide glass, while his concern had standardized on the house having 30-inch radius eaves and 24-inch wide glass.

Mr. Keeler also showed by a series of slides how a large range of greenhouses could be built up from a start of one house and a service building to any number of houses by simply planning for the whole range right at the start and then building each house as a new unit. The proper planning, he said, would save a great deal of bother and expense when new houses are added.

Some very interesting views were shown of greenhouse boilers during the process of manufacture, from the making of the sand cores to the final testing.

Under the head of commercial greenhouse construction a comparison was made of the older arrangement in which six lights of 16-inch wide glass is used to each section of 8 ft. by 4 in., with the newest method which is called the "Reconstructed Construction." In the latter type the rafters are spaced 12 ft. 13/4 in. apart and seven lights of 20-inch wide glass are used in each section. The purlins are spaced farther apart also, so that one-third less rafters, columns, roof bars and purlins are required. Each member is made proportionately heavier, Mr. Keeler said, with the result that houses of this type were lighter, stronger and much more satisfactory in every other

way than houses of the older type.

A nice exhibit was put up by W. W. Edgar Co., consisting of good flowered azaleas, cyclamen, freesias, Euphorbia jacquiniæflora and a robust plant of Acalypha Sanderi, the latter very attractive with its long tassels of light crimson flowers. The whole received a certificate of honorable mention. Begonia Mrs. Peterson from the same exhibitor, received a report of merit.

Two well-grown plants of Erlangea tomentosa from Faulkner Farm received a report of cultural merit. This is the first time this plant has been exhibited before the club.

The annual election of officers was held at this meeting and the following were elected: President, James Methven; vice-president, A. K. Rogers; secretary, W. N. Craig; treasurer, S. J. Goddard; executive committee, H. H. Bartsch, W. J. Kennedy, Peter Miller, Thomas Coles, W. H. Judd.

SEWICKLEY HORTICULTURAL SOCIETY.

At the regular monthly meeting of the Sewickley (Pa.) Horticultural Society, Dec. 12, M. Curran resigned his office of secretary. New office bearers for 1917 were elected as follows: President, John Barnet; vice-president, A. E. Bonsey; treasurer, Wm. Thompson, Jr.; secretary, John Carman (address care of Col. Schoonmaker, Sewickley, Pa.); executive committee, Alex. Davidson, Wm. Thomson, Sr., Chas. Patton, R. Boxel, Wm. Gillies. John Barnes and A. E. Bonsey gave an interesting account of their trip to the convention at Washington, D. C., and intimated that there were prospects of the 1918 convention coming to Pittsburgh. The secretary's annual report showed the Society to be in a flourishing condition. Owing probably to the wintry weather the exhibits were very few. Twenty-one new members were elected and eight applications were filed.

M. CURRAN.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

The first preliminary plant schedule of the Fifth National Flower Show to be held in the Coliseum, St. Louis, Mo., April 6-15 inclusive, 1918, has been distributed from the office of the Secretary. Complete schedule, which will include all cut flower classes, will be issued later. For additional schedules, or information, regarding space in the trade section, apply to John Young, Secretary, 53 West 28th street, New York. The National Flower Show Committee will welcome any suggestions or recommendations as to where this schedule may be improved. All communications on this subject will receive careful consideration, and the Committee will include these recommendations if approved in the next schedule.

AMERICAN ROSE SOCIETY.

The Executive Committee of the American Rose Society at its meeting on December 11th in New York City, registered the rose "Mrs. Chas. Gersdorff," a new climbing hybrid tea offered by Chas. E. F. Gersdorff, Washington, D. C., described as follows:

"The plant is of strong climbing habit, sending strong canes yearly from the root, both in spring and fall. Strong thorns not too thickly set. Profuse and almost constant flowering habit. Flowers generally borne singly though always in clusters of two to four. Foliage very durable, remaining in good condition in hot sunshine for five days by actual test. Buds large like tulips in shape. Color a beautiful Killarney pink, shading to bluish shell pink. The flowers possess a strong hybrid tea fragrance. Have grown these roses for past seven years outdoors without protection in both northern and southern exposures without winter killing."

An invitation was received from Cleveland, Ohio, for the joining of the American Rose Society with the Cleveland Flower Show to be held in November, 1917. November 7th will be designated as special Rose Day at that time. This invitation was accepted. A contract was ordered signed for the use of the 1st Regiment Armory for the Spring Show in Philadelphia, March 20th to 23rd inclusive. Arrangements are being made for a central attraction of Rose Gardens. The committee on plant schedule and prizes reported, and the support received so far has caused an increase of the amount to be awarded for cut roses. There will be a special gold medal valued at \$50.00 offered by Kroeschell Brothers, Chicago, Ill., and the Toronto Horticultural Society has also sent medals.

The death of S. J. Reuter, Westerly, R. I., was reported. Mr. Reuter was one of the substantial life members of the Society, and the sense of the committee was expressed in the following:

RESOLVED: That this committee express to our vice-president, Mr. Louis J. Reuter, and his family, the sincere regret of all at the loss sustained by them in the death of Mr. Reuter, senior, who was one of the early life members of the American Rose Society, and a man respected by all, and that the secretary be directed to transmit the same to Mr. Reuter's family.

The list of Guarantors to the fund which now reaches in excess of \$6,000, and the total number being 67, is as follows:

Messrs. A. B. Scott, C. H. Grakelow, W. K. Harris, W. A. Burpee, George Burton, Conrad & Jones, Jos. Heacock, Alfred Burton, Adolph Farenwald, Robert Craig, H. F. Michell, Geo. C. Thomas, Jr., Stephen Mortensen, W. A. Leonard, Florex Gardens, M. Franklin, Lord & Burnham Co., Aug. Doemling, Myers & Samtmann, John Burton, H. H. Battles, Louis Burk, J. J. Habermehl's Sons, Edw. Towill, L. B. Coddington, P. Welch, E. G. Hill, A. M. Henshaw, W. H. Elliott, P. Breitmeyer, Cleveland Flower Show Association, Knoble Brothers, John Welsh Young, M. H. Bickley, S. S. Skidelsky, Gude Brothers Co., Robert Simpson, Benjamin Hammond, Admiral Aaron Ward, S. J. Reuter & Son, Harry O. May, S. S. Pennock-Meehan Co., E. Allen Pelree, A. N. Pierson, J. M. Gasser Co., Victor Groshens, Fred Burkl, Henry A. Dreer, Rudlong Rose Co., Leo Nessen Co., Peter Fisher, H. Bayersdorfer & Co., C. H. Totty, Samuel Murray, Emil Buettner, Pennock Bros. Hentz & Nash, Inc., \$100.00 each; South Park Floral Co. and Vaughan's Seed

Store, \$50.00 each; W. F. Kasting Company, S. A. Anderson, W. J. Palmer, Robert Scott, Jacob B. Wiese, Chas. Schoenhut, \$25.00 each; Edward Stroh, \$15.00.

The preliminary schedule of prizes will be issued at an early date.

BENJAMIN HAMMOND, Secy.
Beacon, N. Y.

MINNESOTA HORTICULTURAL SOCIETY.

The 50th anniversary of the Minnesota Horticultural Society and its affiliated associations was a notable gathering. There has been a review of what has been accomplished—a succession of victories has been recorded. This is now the largest society in the United States if not in the world—total membership, 3,837. No state has had more to contend with or won grander results. The display of fruits was amazing.

The Northwestern Peony and Iris Society was an enthusiastic affair. Many of the wealthy business men of the Twin Cities are members and are pushing it with vigor and enthusiasm. They have set their mark for two hundred members the first year. The meeting was held Dec. 6th and was well attended. Two leading lawyers, one from St. Paul and the other from Minneapolis made stirring addresses. Their summer meeting disclosed the fact that this section could raise as fine peonies as could be grown anywhere.

A few years ago, one of the real estate men of St. Paul commenced importing the very choicest peonies from Europe. His name is D. W. C. Ruff. At first he had no thought of doing anything in a commercial way. But he had a very favorable location and his peonies would grow and bloom and he had such a splendid collection that he sold thousands of dollars' worth the past year. His are the very finest. Two parties came all the way from Chicago to see them in bloom and bought heavily. He also sent many to the Atlantic cities. The summer exhibit here surpassed anything I ever saw and I have attended many notable shows. I have seen our American raised varieties side by side with the choicest importations and they show well beside them. I think the fact is clearly established that if you want the very best you must come to the Twin Cities for them. At least so think many Eastern growers who come here after them.

Thursday afternoon was given to memorial services for the illustrious dead who helped to make this great society what it is and who pushed this state from the rear to the front as a fruit growing state. The writer was called on to forecast the future and he outlined the probable victories of the next fifty years—judging the future from the past.

The weather has been ideal—being like California in its mildness, so the attendance has been large and the cheer and enthusiasm has been contagious. All bow to these soldiers of peace who build up instead of destroying, who follow paths of peace and not of war.

C. S. HARRISON.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The annual meeting of the above society was held in Glen Cove, N. Y., on Dec. 13. The judges awarded 1st prize on the exhibits to Peter McDonald for 25 carnations, 1st to John W. Everitt for single violets, and honorable mention to Harry Goodband for a chrysanthemum, Cosmos Pink. Mrs. Payne Whitney was elected an honorary member and three applications for active membership were received. The president presented the silver and glass trophies, won at our recent exhibitions, to the winners. Treasurer Ernest J. Brown read his annual report, showing this Society to be in a splendid condition financially.

Balloting and installation of officers was well conducted with James Duthie in the chair, the following named officers being elected: President, James McCarthy; vice-president, James Gladstone; secretary, Ernst Westlake; corresponding secretary, Harry Goodband; treasurer, Ernest J. Brown; executive committee, Robert Jones, Joseph Adler, George Ford, John F. Johnson, Arthur Cook, Archie Trail, Frank Watson; trustee for three years, James McDonald; trustee for two years, James Holloway.

Our next monthly meeting will be held on Wednesday, Jan. 10th, at 2 o'clock. Monthly competition, 12 freesias, pot or pan of *Primula malacoides* and three poinsettias. It was decided to hold our annual dinner on Tuesday, Jan. 23rd, 1917.

HARRY GOODBAND, Secy.

AMERICAN CARNATION SOCIETY.

The schedule of premiums for the 26th annual meeting and exhibition of the American Carnation Society, to be held at Indianapolis, Ind., on January 31 and February 1, 1917, has been received. Secretary Baur has succeeded in filling it up nicely with good sized advertisements from the leading trade houses. The list of premiums, etc., is of the customary extent and quality. The business session of the society will be called to order at 8 P. M. on Wednesday and the banquet will be served on Thursday evening at the Claypool Hotel.

CLUBS AND SOCIETY NOTES.

Jas. Foster, Norton Hill, Stanford, Conn., received honorable mention from the New York Florists' Club on December 11 for seedling single chrysanthemums.

A short business meeting was held by the Reading, Pa., Florists Thursday evening, Dec. 7, at the home of D. P. Guldin. The report showed that the recent show proved a success in every sense and the association will hold one next year. The meeting was in charge of Stanley Giles.

At the meeting of the Rhode Island Horticultural Society, held in the public library, Providence, December 20, Mrs. Levi B. Edwards lectured on "Glimpses of South American Vegetation." Mrs. Edwards has recently returned from a trip across South Amer-

ica, and her lecture was much enjoyed. A business meeting preceded the lecture at 8 P. M.

ERNEST K. THOMAS, secy.

The Florists' Club of Hartford, Conn., met at the Hotel Bond, Tuesday evening, Dec. 12. Fifteen florists attended the dinner, at the close of which there was an informal meeting. The secretary read the by-laws, constitution and rules drawn up by the executive committee, and they were approved. The members discussed business matters relating to the handling of the Christmas trade.

George T. Boucher spoke before the Rochester (N. Y.) Florists' Association on Dec. 11, on "The Marketing Problems and Methods of Retail Florists." Mr. Boucher declared that increased competition was making the retailing of flowers so difficult that the florist could succeed only by the strict application of modern business methods. Several of the points which go to the making of an efficient flower shop clerk were touched upon by the speaker, enthusiasm in his work being mentioned as one of the most necessary qualities. A nominating committee was appointed to select a slate of officers for the election to be held at the next meeting.

A banquet of the Andover (Mass.) Florists' and Gardeners' Club was held in A. O. U. W. Hall, Thursday night, Dec. 14. Addresses and discussions followed and means of securing more support were planned. It was voted to organize a campaign to secure 200 or more associate members at \$1.00 per year to help carry on the work and equalize the burden. To this end a committee of three was appointed consisting of Samuel H. Bailey, George Piddington and Warren L. Johnson. There was a question as to continuing the flower show but the members finally agreed to try the above plan this year in support of the exhibition. Among those present were J. H. Playdon, Samuel H. Bailey, John Nicoll, Warren L. Johnson, H. Coles, J. F. Coles, John Buchan, James Fairweather, Henry A. Bodwell, R. Donald, George Piddington, H. F. Chase and Messrs. McCloud, Webber and Bernardston.

SNOW BLOCKED THE EVERGREEN RAID.

Plenty of snow with its accompanying coasting, sleighing and snowshoeing, may add greatly to the charm of the Yuletide season, but this year it has also served to save hundreds of dollars' damage to the woodlands in Weymouth, Hingham and Cohasset. The process was simple. It stopped the autos.

Every year scores of auto parties scour the woods in this section, gathering young fir and hemlock trees, evergreen and holly for the Christmas decorations. And aside from the greenery actually taken away, they ruin nearly as much more.

Yesterday, however, there was too much of snow in the woods, there was too much in the roads for comfortable driving, and there was not an evergreen hunting auto to be found in the three townships.—*Boston Post*.

Obituary

Daniel Stilphen.

Daniel Stilphen, a florist of North Conway, N. H., died on Dec. 10. Mr. Stilphen made his headquarters in summer at the New Mount Washington hotel and was well known to White Mountain summer visitors.

Charles Elbrecht.

Charles Elbrecht, 60 years old, a florist, of 415 Steinway avenue, Long Island City, N. Y., was found dead in bed early Sunday morning, Dec. 10, from gas poisoning. His home was in Scranton, Pa., and among his effects was found a card which referred to relatives in Honesdale, Pa., in case that he met with an accident or needed assistance. It is thought to be a case of accidental death, as the man had been in good spirits and there had been no indications that he contemplated suicide.

Charles W. Prescott.

Charles W. Prescott of Concord, Mass., who knew more about asparagus growing than any other man in the country, died in the Haymarket Square Relief Hospital, Boston, Friday night, Dec. 15. He was taken to the hospital Sunday after he was stricken with a hemorrhage. He was about 58 years old. Mr. Prescott was the largest individual asparagus grower in the Eastern States, his farm in Concord being He had been growing asparagus since considered the finest in the country. 1879, and no one was regarded as better authority than he on that esculent vegetable. He acquired a National reputation, however, by his scientific battle against what was known as asparagus rust. Much of what has been accomplished in rendering asparagus immune from rust or in the discovery of a species that would be a resistant to rust can be justly credited to the labors, researches, experiments and scientific studies of Mr. Prescott.

THE LATE WM. C. BARRY.

Our readers will be interested in the following additional notes which were not available for our obituary notice of this eminent horticulturist which was published in last week's issue.

Mr. Barry was born in Rochester, September 17, 1847, the oldest of eight children of Patrick Barry. He received his education at Seton Hall college, New Jersey, after which he was graduated from the universities of Heidelberg, Germany, and Louvain, Belgium. Soon after being graduated, he entered the nursery business with his father in the firm of Ellwanger & Barry.

When the old board of Rochester park commissioners was organized in 1888, Mr. Barry was appointed one of the twenty-one members. He immediately took an active part in the work of the board and was instrumental in obtaining for the city all of the parks now in existence. When the board was abolished in March, 1915, Mr. Barry and John E. Dunbar were the only charter members on the board. When the Ellwanger & Barry Co., gave the ground to the city for Highland park, Mr. Barry was ap-

pointed chairman of the committee to take charge of the work in laying out the grounds. His knowledge of plants, trees and flowers made his work in this park invaluable and soon the park became noted throughout the country. In 1890 he presented to the children of Rochester the beautiful pavilion that crowns the highest point in the park. The pavilion was built at a cost of \$8,000 and its dedication was one of the first affairs of its kind that proved to the city authorities the value of the parks as a great public recreation place.

Mr. Barry's wife died about five years ago. He leaves three sons, William C. Barry, jr., Frederick G., and Arthur A. Barry, jr., daughter, Mrs. Charles H. Stearns, and a sister, Mrs. Bernhard Liesching, all of Rochester.

In speaking of Mr. Barry's death, Calvin C. Laney, superintendent of parks said:

"Only those who have seen the growth of Rochester's parks, in which Mr. Barry took such an active interest, can realize what his death means. Nothing proposed for the benefit of the public was too small for his careful investigation. Rochester has lost a citizen whose worth cannot be overestimated."

PUBLICATIONS RECEIVED.

Studies in Gardening, by A. Clutton-Brock. With Introduction and Notes by Mrs. Francis King. Published by Charles Scribner's Sons, New York. Here we have a really remarkable book on gardening. The author is not only a well-informed and practical plantsman, but is a master of fine phrasing and expresses himself in language that illumines long-standing controversies in garden art with a light which at once impresses and captivates the reader.

Mr. Clutton-Brock writes of English gardening but so largely of the general theory and practice of the art that his work is equally valuable in America and Mrs. King on her part has ably edited it to fit American climatic conditions. The book is a marvel of suggestive logic, so entrenched with proof that its assertions seem almost impregnable even when quite antagonistic to one's cherished convictions. It is the sort of book one cannot devour in chunks—every word and line must be attentively read in order to absorb its full meaning. Exquisite word pictures, judicious cultural advice, expositions of the principles of good taste and common sense in gardening, and the interrelationship of nature and art, caustic condemnation of objectionable art—the latter sometimes carried a bit too far, however,—all conduce to the conviction as expressed by Mrs. King, that "American gardens cannot but be richer, finer, for every reader of this book." The true gardener, whether amateur or professional, will find Studies In Gardening full of healthy inspiration. The practical value of the chapters is distinctly strengthened by Mrs. King's careful foot notes where the American reader might be misled by the text.

Studies In Gardening may be had at the office of HORTICULTURE at the publisher's price, \$2.00 net.

During Recess

Lancaster County (Pa.) Florists' Club Annual Banquet.

Exactly half the members of the Club responded to the invitation to a banquet and social at the Brenneman Building on Thursday, Dec. 14th. While the caterer was preparing the tables a short meeting was held at which the report of the Flower Show auditing committee through the chairman, W. B. Girvin, was given showing a surplus of \$176.95, which was a delightful surprise. The programme committee reported a carnation meeting for Jan. 18th, with Elmer Weaver of Ronks to give his experiences with a number of last season introductions. Exhibits are looked for from introducers of new ones for 1917. Officers for 1917 were nominated as follows: President, Harry A. Schroyer, Lancaster; vice-presidents, Elmer Weaver of Ronks and Willis B. Girvin of Leola; secretary, Frank L. Kohr, Lancaster; treasurer, Harry K. Rohrer, Lancaster. An adjournment was then made to the dining hall which had been decorated by Lemon Landis, H. D. Rohrer and B. F. Barr. The dinner was in the words of our only visitor, T. J. Nolan, "a wonder" from a quality point of view. Cigars were provided by H. A. Schroyer as they had been earlier in the game presented to him as a mark of appreciation for his services the past year.

President Schroyer presented the Henry F. Michell medals during the course of the dinner with a neat little speech accompanying each medal, one to Elmer Weaver for the best display of cut flowers and plants combined, and the other to B. F. Barr for the best table display, at our flower show. Wm. P. Brinton made a few fitting remarks applicable to the season and the necessity of treating our holiday customers so as to make permanent buyers of them instead of intermittent ones.

Billiards and pool, cards and bowling were then indulged in until a late hour and every one went home delighted, but with a sympathetic tear for those who were unable to attend.

ALBERT M. HERB.

Washington Florists' Bowling.

The bowling team of the Florists' Club of Washington, D. C., showed a marked improvement last week when it defeated the Perpetuals, both of which teams bowl in the Mount Pleasant Duckpin League. Jenkins was high man for the florists, and George Shaffer second. The score was as follows:

MOUNT PLEASANT DUCKPIN LEAGUE.			
Florists.			
Schoeps	93	105	89
Jenkins	102	105	112
G. Shaffer	101	104	107
A. Shaffer	89	90	85
Gouldman	98	93	97
Totals	483	497	490

SOILS.

By Leonard Macomber, in "The Golf Course."

Text books classify "clayey soil," "loam," "light sandy soil," and the like and the average person looks at his lawn, which to him is only plain "ground" and is quite at a loss to know its real description.

The principal ingredients of soil are sand, clay, gravel, and humus; and it is the proportion in which these are mixed that determines the kind of soil.

A loam, as far as plants are concerned, is a workable and a most digestible mixture of clay, sand, silt and humus, but when one or another of the ingredients predominates, it gives its name to the loam—viz.: sandy loam or clay loam.

A sandy soil, by adding humus, can be converted into a sandy loam, and a heavy clay soil by adding sand, peat, leafmould, and often lime is necessary, can be converted into a clayey loam.

An Easy Soil Analysis.

Aside from the feel of soil and its appearance, there are mechanical tests which are not so difficult to apply. First get a fair sample of the soil from several different places (say a quart). Weigh this and put down the weight. Next put the soil in a pan at the back of the stove and let it stand until thoroughly dry, but it must not be allowed to burn. Weigh again and the difference between this and the first weight is the amount of water the soil holds.

Now put it in a hot oven for three or four hours; then weigh again. The humus will have burnt and the difference between the second and third weights gives the amount of humus.

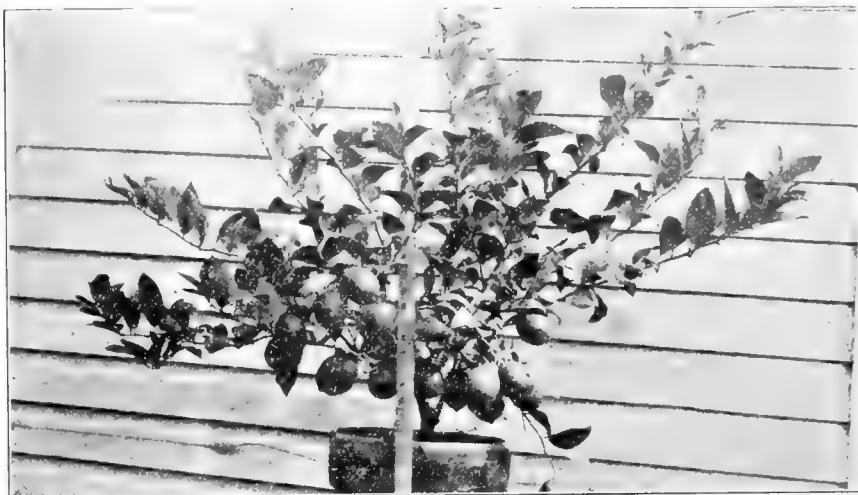
Now in your pan is clay, sand and silt. Put this soil in a wide-mouthed glass bottle or jar—a two-quart jar will do; the larger the better. Fill it with water and then shake it violently. Then set it down on a table and observe.

The sand or gravel being heaviest will settle first; next the silt; while the clay will remain in the water for hours. After a day or so, it will be seen that there are no sharp divisions, but yet the different elements are separated definitely enough to give a fairly good idea of the proportions. You can then work and treat your soil accordingly to make it well balanced.

It is hardly ever necessary to make a complete chemical and mechanical analysis of soil, unless one knows for certain that its failure to carry the desired crop is entirely due to the structure or chemical constituents, and not to position or environment or the climate conditions ruling in the district.

If soil is known to be barren, it is

A DWARF LEMON FOR FLORISTS' USE.



MEYER'S DWARF LEMONS

Our picture shows a new dwarf lemon which promises to be very desirable for pot culture as it bears profusely while quite small. The fruit is orange in color and of excellent qual-

ity when ripe. We are indebted to Dr. W. Van Fleet of the U. S. Department of Agriculture for the photograph, who informs us that the variety is distributed under the Foreign Seed and Plant Introduction Number S. P. I. 23028.

necessary to make a close analysis of it to find out why it is barren. If however, soil is not barren, but does not carry a crop well or is under suspicion, it is well to test for nitrogen, phosphoric acid, potash and lime, but unnecessary to test for iron, magnesia, sulphuric acid, silica, soda, or chlorine, because the latter are so generally present that they can be almost ignored.

It is almost always better to work from a description and an examination of samples of soil in prescribing than from the closest and cleverest analysis, unless the soil is known to be barren.

The analysis of soil can only be approximately true for these reasons:

If the sample is taken from one place and represents several acres, it may be absolutely misleading. The presence of a leguminous plant growing on the spot, the stalling of a beast, or the presence of a piece of refuse, might throw the analysis right out of gear.

If the area to be analyzed is plotted and samples carefully taken from each plot, the whole mixed and a small portion analyzed—the result would be substantially correct, but in all probability if portions of the one sample were sent to different chemists for analysis, each one would give a slightly different result.

To sum up, science in regard to agriculture is a good servant, but a cruel master—or in other words, a crop cannot be grown by thumb and rule, and unless rainfall, temperature, the humidity of the air, the quality of the soil, its conditions, drainage, power to conserve water, and all such factors are taken into account, and are more or less favorable—soil may be barren, although it may be proved by analysis to be rich and fertile.

The analysis of poor soil placed against a good soil is pretty confusing

to the ordinary man, and so hopelessly unintelligible to the majority, that they rarely exist except in text books.

Example:

	Poor Light Soils	Poor Heavy Soils	Good Heavy Soils
Example:			
Nitrogen	0.10	0.12	0.19
Potash	0.02	1.11	0.60
Lime	0.10	0.00	2.61
Phosphoric Acid...	0.05	0.05	0.27

The usual chemical analysis of a soil consists in finding out the amounts of the above elements present and also the percentage of magnesia and humus contained. These materials, except the humus, are extracted from the soil by strong acids, and the action of these acids is many times stronger than is ever brought to bear by plants on the soil in its normal condition in the field. It is therefore impossible at present to draw any certain conclusions from the results of such an analysis that are applicable to field conditions, since the acids used in the laboratory dissolve out much more of the plant-food in the soil than is ever in solution in normal soil water. If, however, an analysis shows only a very small amount of nitrogen, then one can certainly conclude that the soil is deficient in this element and would probably be benefited by its application. In inspecting new property and judging the qualities of the soil it is always advisable to observe the natural plant growth.

A soil deficient in nitrogen is constantly showing its condition in the growth of the plants on it. Short growth of straw and vine, failure to develop a full dark green color in the foliage and the growth of sorrel and ox-eye daisy, all tell as accurately as the chemist, with all his skill, that the soil lacks nitrogen. It is the same with the other constituents.

It is only when a soil is extremely deficient in certain plant foods that a chemical analysis of it shows the cause of the trouble. Usually an examination by an expert will suffice.

MARYLAND WEEK

The week ending Saturday, November 18, 1916, was more than seven calendar days for the people of Maryland. It was an entire year of work, of crops, and of thought put into and filling everyone of the 60,000 square feet of floor space at the 5th Regiment Armory of Baltimore. Maryland Week has become an institution, and the story of its steady growth, from a small exhibit a few years ago to a state show of national prominence at the present time, is an excellent indication that it is carrying out the first conceived idea that it should be a clearing house of agricultural opinions, teaching by the sight of good products, by the hearing of authoritative lectures, and by a general "swapping" of ideas among the visitors themselves, the lesson that the prosperous farmer must be up-to-date, must follow new methods or improve on the old, and that Maryland holds within her borders just about all the requisites for successful agriculture.

Perhaps no expression could be given that would furnish a truer idea of what the show has become than the one of Mr. W. H. Olin, supervisor of marketing of the Frisco Lines:

"The best corn that I have seen this entire year in my travels from Kansas City to Chicago and the eastern coast is on display at this show; in fact it is the best I have seen since the days of the National Corn Show at Dallas in 1914.

"The best apple barrel pack that I have ever seen is the one that took the blue ribbon in the apple display. The plate display compares very favorably with the one at Spokane.

"The uniform good qualities of the varieties shown seems, in my judgment, to speak for the Maryland people more than anything that I have seen and it does convince me that there are several varieties that can be grown in Maryland that are equal to, if not superior to those grown in any other locality. There are several things that have impressed me as being desirable here; first, it shows the agricultural resources of the state; second, quality seems to be what the grower is seeking in his display; and third, that every phase of good farming is here emphasized."

These thoughts are the sole ideas of one man, but indeed they can be classed as identical with those of everyone of the 50,000 people who thronged the Armory on every day and evening of the show. Never before has the show been so large, never has quality been so good, never has there been more or better team work between officers, and never have such efforts been rewarded with the success of a Maryland Week that has just passed into history.

The Corn Show.

The West will have to "perk up." No longer is the supremacy of corn growing going to center around a few states of the Mississippi Valley if the indications that have shown up in the corn exhibit run true. Better type in all varieties is seldom attained in a show of this size, according to visitors from the Corn Belt and better quality has not been shown this year at any show. A. B. Twining of Forrest Hill, one of this year's winners, won the Eastern Championship at the National Show in Dallas in 1914. J. H. Gal-

breath, of Street Maryland, high man at the show this year is prominent as an eastern exhibitor at western shows. He won the highest honors this year with display of Johnson County white corn, the prize of a silver loving cup having been won by him during the two preceding years also. In the boys' classes a brother, Paul Galbreath, won first and sweepstakes and the entry was also the reserve grand champion of the show. The boys exhibit alone included 140 entries, with ever county in the state being represented, Worcester leading with 45.

Along with the good quality of the corn shown there has been another factor present which the middle west has yet to solve, and that is the association of good show corn and high yields. This correlation has not been preached by institute workers in Maryland as it has been elsewhere, but some unseen force has apparently been moving with the development of the show, making impressive the fact that very few prize winning samples have come from fields yielding less than 75 bushels per acre. A. B. Twining, one of this year winners averaged 94 bushels per acre with his entire crop, and this is a record that will hustle any mid-western state to duplicate.

Vegetable Exhibits Increases 120 Per Cent. in Size.

Three years ago four thirty foot tables held the vegetables exhibit, while the present year found the entries in this class occupying almost one-fourth of the entire space. "The quality of this exhibit has not been surpassed by any state show so far this year," said Dr. D. N. Shoemaker of the U. S. Department of Agriculture, who was one of the judges.

Furthermore, the quality has improved not only in the appearance of the individual exhibits but also in the uniformity and trueness to type of the entries, indicating and emphasizing that the educational features of former shows have found root in fertile soil.

Fruit Displays Quality.

The fruit display was good but not what the state is capable of showing. Situated as is Maryland, close to markets, and enjoying excellent climatic conditions and soil adaptations, her showing fell short. But if the visitor had compared the present quality with that displayed six years ago there would be left no room for doubt but that great progress has been made. Freedom from disease in such an unfavorable year was remarkable, and the uniformity and general approach to market standards gave indications that new orchards are coming into bearing, that new growers are being added to the list, and the old growers are giving more attention to spraying and pruning.

The exhibits of Stayman Winesaps were the best that have ever been shown, and the prize-winning box was sent to President Wilson. It was grown by Hanson Bros. of Ellicott City.

Dairymen's Exhibit Makes Hit.

The State Dairymen's Association furnished one of the drawing cards of the show with their very much alive, flesh and blood exhibit of dairy cows. Eight kind and gentle faced "bossies" made their home in the Armory during the entire week, and after the first day were as reconciled to their quarters as if the visits of thousands of eager visitors were every day affairs.

Through the courtesy of the Loudon Company stanchions and stalls were provided, and the Sharples Company installed a milking machine on an elevated platform where a cow was milked every hour. Demonstrations in feeding both cows and calves were carried out and the four pure bred calves looked at the crowd through their little stanchions, ready to convince the spectators at all times of the palatableness and desirability of skim milk as a ration and also that a small amount of ground feed in the bottom of the bucket was a much relished dessert after the main meal.

A complete dairy equipment was also installed including everything from pasturizer to bottler. Many city people for the first time obtained the idea of how their milk was or was not handled, and the insight they obtained to the meaning of such terms as "pasteurized," "certified" and the like will bring about a much better understanding between producer and consumer. Many also declared their intentions of visiting their dairymen's farm, thus bringing together two forces that have been or may be otherwise working in opposite directions.

Apiary Exhibit.

The products of the apiary were not displayed in much greater quantity than last year. The weather is a great factor in the quality of the bee-man's products and the year just passed has not been one most favorable. However, there was not a single doubt lingering in the minds of the spectators but that a better quality would require a bit of time to find. The observation hives attracted much attention, and the attendants were kept busy explaining just how the honey was obtained and the personal peculiarities of this winged tribe.

"Folly Quarters."

There are few farms on which one can find everything from dried sage to sausage, but the 177 different articles shown in the "Folly Quarters" booth included both these and all that a farmer or any other person would include as articles of diet. Be it wholesome ham with either brown eggs or white ones; or sweet potatoes and possum; or the constituents for a mixture of these which we often pay a high price for and is indigestible after we get it; all were here, and grown on the farm, owned by Mr. Van Lear Black of Baltimore.

The booth represented in its outline a barn. The frame work was of lumber sawed from trees on the farm. The sides were bales of straw, sheaf wheat was draped over the entrances, and the roof was thatched with fodder. The farm products were displayed on shelves, and vegetables were canned and raw. In the ice box was a dressed turkey and chicken ready for the oven; a rabbit, a 'possum, and a half dozen quail made up the game portion; and the only things missing which the

average person uses were sugar, coffee and salt.

To the few who may have wondered "why so much?" the remark of one man who passed would clear matters considerably; "It shows that the farmer is still the most independent and most favored gent on this old earth." The officers of the Maryland Agricultural Society and its affiliated organizations Maryland State Horticultural Society, Maryland Crop Improvement Association, Maryland State Dairymen's Association and Maryland Beekeeper's Association, and everybody else whose energies played a part in the big affair, deserve unstinted praise for their efforts in making the Exhibition successful.

Plans for next year's Maryland Week are already under way. The new officers elected are men of experience who have seen the show from the beginning to its present attainments, and the increasing success will be given more momentum by a larger prize list, more advertising, and the help that the present year's efforts have brought in the way of success.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago

CLAY'S FERTILIZER

Endorsed by all Growers

112 lb. \$7.00

WM. ELLIOTT & SONS

42 Vesey St., New York



IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

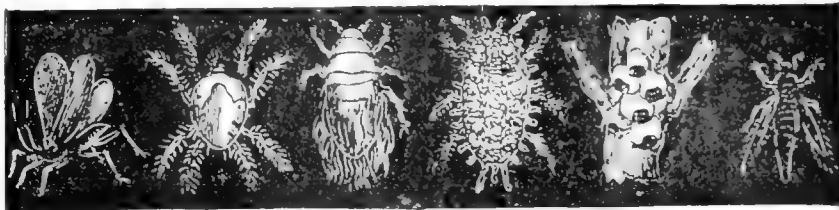
Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON

Hammond's Thrip Juice No. 2

REGISTERED

A Contact Insecticide, Useful and Reliable, Used for 30 Years in Greenhouses, and on Plants, Grape Vines, Trees and Shrubs



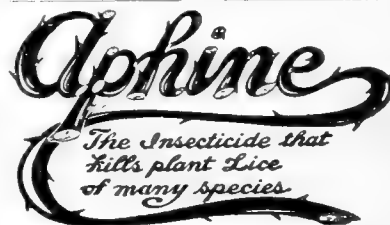
Some common Sucking Insects, magnified.

HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.

NATIONAL FORESTS AND NATIONAL PARKS.

The handling of the national forest recreation resources inevitably raises the question of the relation of the national forests and the national parks. At present there is no clear distinction in the public mind between the two. Both are administered for the benefit of the public along lines which overlap. The parks and forests occur side by side and have the same general physical characteristics — extensive areas of wild and rugged lands, for the most part timbered, with development conditioned upon road construction and similar provisions for public use. They differ chiefly in the fact that the attractions of the national parks from the recreational standpoint are more notable. Yet this is not always true. Several of the parks are inferior in their natural features to portions of the forests. The need of drawing a clear distinction between national parks and national forests and of a definite policy governing their relation is increasingly evident. Parks are being advocated where the land should stay in the forests, while elsewhere areas which should be made parks continue to be administered as forests—for example, the Grand Canyon of the Colorado.

A national park should be created only where there are scenic features of such outstanding importance for beauty or as natural marvels that they merit national recognition and protection and, on this account, have a public value transcending that of any material resources on the same land—such areas, for example, as those now comprised in the Yellowstone and Yosemite Parks and in the Grand Canyon National Monument. The areas should be large enough to justify administration separate from the forests and the boundaries drawn so as not to include timber, grazing, or other resources the economic use of which is essential to the upbuilding and industrial welfare of the country. In addition, when parks are created from parts of the forests, the portions remaining as forests should not be left in a form difficult or impossible to administer.—Report of Secretary of Agriculture.



The Recognized Standard Insecticide. A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

1/2 Pint, 25c.; Pint, 40c.; Quart, 75c.;

1/2 Gallon, \$1.25; Gallon, \$2; 5 Gallon Can, \$9; 10 Gallon Can, \$17.50.

Directions on package.

LEMON OIL COMPANY

Dept. S. 420 W. Lexington St., Baltimore, Md.



NIKOTEEN

For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer For It

NICOTINE MFG. CO.
ST. LOUIS

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending Dec. 8, were recorded as follows:

Bulbs — Denmark, \$1,419; France, \$542; Netherlands, \$44,906; Norway, \$2,625; England, \$661; Bermuda, \$15; Japan, \$14,925.

Plants — Belgium, \$12,106; France, \$449; Netherlands, \$43,962; England, \$1,140; Ireland, \$778; Bermuda, \$3; Brazil, \$149.

Red clover seed—France, \$5,404.

Clover seed—France, \$2,220.

Grass seed — Russia, \$448; Ireland, \$4,824.

Other seeds — Denmark, \$1,794; France, \$36,465; Netherlands, \$465; England, \$1,916; Ireland, \$122; Hong-kong, \$181; Argentine, \$3,778.

Nitrate of soda—Chile, \$325,857.

Other fertilizers—Argentine, \$8,570.

M. van Waveren & Sons, Ltd., Hillegon (Holland).

We are informed that this old established firm has appointed as managing directors, Messrs. W. A. Philippo and C. de Wreede, who have both held leading positions in the firm for many years.

Mr. Philippo has made frequent visits to the United States until three years ago and is well known to the seedhouses in the East. Mr. T. van Waveren under whose leadership the business has flourished and attained its present prominent position in the horticultural trade, will as before devote his energies toward its further development, as president of the company.

This firm established a branch office in New York many years ago, which was incorporated in 1916 with H. Langeler as managing director.

Washington, D. C.—The so-called Barkley misbranding bill, now pending in the House of Representatives, is to be amended so as to relieve shippers of indistinguishable seeds and nursery stocks from its penalty provisions. This action is to be taken by Congressman Alben H. Barkley, the author of the bill, following the receipt by him of a number of requests from those engaged in this business who fear that the bill as it now reads will work a great injustice and hardship upon them. The amendment will exempt seeds, roots, bulbs, or nursery stock indistinguishable by their appearance and unintentionally mislabeled from the penalties provided for violations of the proposed law.

SHAMROCK TRUE IRISH

Trade packet 25 cts., oz. \$1, ¼ lb. \$3, lb. \$10

5% Discount, Cash with Order.

ARTHUR T. BODDINGTON CO., Inc.
128 Chambers Street, New York

SCARLET SAGE

We have harvested this Autumn a satisfactory crop of

SCARLET SAGE SEED

And offer of our own growing on Bloomsdale Farms

BONFIRE or CLARA BEDMAN.....at \$18.00 per pound

This Sage is fine strain and worth the price we ask. Terms:—Net 60 days, 2½ per cent. off 10, f. o. b. Bristol, Pa.

D. Landreth Seed Company **BRISTOL, PA.**

Bloomsdale Seed Farms, Established 1784.



SEEDS for the FLORIST

ASTERS QUEEN of the MARKET.

The best extra early variety, large, double flowers, on long stems, in colors: Crimson, Dark Blue, Light Blue, Rose Peach Blossom, White.

Trade Packet, 20c., Oz., 75c.

Sweet Peas, Cyclamen, Primulas, Lily of the Valley, from Our Own Cold Storage Plant.

Our Trade List Mailed on Application.

FOTTLER, FISKE, RAWSON CO., **THE SEED STORE** **BOSTON**
Faneuil Hall Square

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes
Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of
Commerce Bldg., Boston, Mass.

CATALOGUES RECEIVED.

Henry F. Michell Co., Philadelphia, Pa.—New Crop Flower Seeds for Florists.

C. W. Brown & Co., Ashland, Mass.—Catalogue and Price-List of Gladiolus Bulbs.

North-Eastern Forestry Co., Cheshire, Conn.—1917 Catalogue of Young Evergreens.

W. W. Wilmore, Denver, Colo.—Dahlias, 1917, a comprehensive, handsomely illustrated and very creditable publication. Asso Trade List for Spring 1917.

W. E. Marshall Co., New York City.—Seed Catalogue for 1917. Mr. Marshall is the "early bird" surely this year and this 96-page catalogue "neat but not gaudy" and descriptive with-

out overpraise, should be effective in catching the early meal.

NEW CORPORATIONS.

Jefferson, La.—Jefferson-Ratekin Seed Co., to deal in field seed. Incorporators, J. W. Ratekin, D. L. Howard and M. Head.

St. George, N. Y.—George's Flower Shops, capital stock, \$5,000. Incorporators, S. Schulnick, E. Moerdes and E. Georgiades.

The Yokohama Nursery Co. has sent out a very attractive calendar for 1917, of quaint Japanese design.

Michell's Distinctive Seeds
Catalogue free
518 Market St. — Phila.

SPECIAL OFFER Japanese Lilies

Longiflorum Giganteum (BLACK STEM)

7 to 9 inch\$30.00 per 1000
All 8 " selected... 35.00 " "

ALL SELECTED BULBS OF BLACK STEM

Lilium Formosum

9 to 10 inch.....\$80.00 per 1000
7 to 9 " 51.00 " "

Also Selected High Grade Bulbs.

Lilium Multiflorum

7 to 9 inch.....\$44.00 per 1000
9 to 10 " 71.00 " "
10 to 11 " 96.00 " "

Lily of the Valley Pips, New Crop BERLIN OR HAMBURG

Cases of 1000 pips.....\$17.00 each
Cases of 500 pips..... 9.00 each

J. M. THORBURN & CO.

53 Barclay Street
NEW YORK CITY

SOW EARLY

SWEET PEAS

	Lb.	1/2 Lb.	Oz.
White Spencer .	\$3.00	\$1.00	\$.30
Countess of Spencer	2.75	.75	.20
Maud Holmes . .	2.75	.75	.25
Asta Ohn Spencer .	3.00	.85	.25
Clara Curtis . . .	2.50	.75	.20
Hercules		1.25	.40

VERBENAS

Farquhar's Giant Blue
Farquhar's Giant White
Farquhar's Giant Scarlet
Farquhar's Mammoth Hybrid
Mixed

All the above, 1/4 oz. \$0.40;
1/8 oz. \$0.25

MIGNONETTE

Farquhar's Universal, 1-4 oz.,
\$3.75; 1-8 oz., \$2.00; 1-16
oz., \$1.00.

VINCAS

Bright Rose, Pure White
White with Rose Eye
All the above, oz. \$1.00; 1/4 oz. \$0.30

Wholesale Catalogue Mailed on Application

R. & J. FARQUHAR & CO. BOSTON MASS.

KELWAY & SON SPECIALIZE IN SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or
Forward

Only Address, LANGPORT, Eng

Burpee's Seeds PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT

J. BOLGIANO & SON WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragons on
the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.
PHILADELPHIA, PA.

My new Price List of
WINTER-ORCHID-FLOWERING SWEET
PEA SEED

Has been mailed. If you have not received
a copy, send me postal. Part of new crop
will be ready early in July.

ANT. C. ZVOLANEK
Sweet Pea Ranch Lompoc, Cal.

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

ROMAN J. IRWIN

108 West 28th St., NEW YORK

SPECIAL OFFER

LILIUM FORMOSUM

8/11, 225 to a case.....	\$80.00 per 1000
9/10, 200 to a case.....	\$5.00 per 1000
11/13, 100 to a case.....	15.00 per case
LILIUM FORMOSUM—Black Stem	
8/10, 200 to a case.....	\$80.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
11/13, 100 to a case.....	16.00 per case

See Classified List for Seasonable Plants,
Rooted Cuttings, Seeds and Bulbs.
Write for Complete Stock Circular.

SATISFACTION GUARANTEED.

THOMAS J. GREY COMPANY

SEEDS, BULBS AND IMPLEMENTS
WHOLESALE AND RETAIL.

Resected Strains in Seeds.
Improved styles in Implements.
Catalogue upon application.

29 So. Market Street
BOSTON, MASS

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

SEEDS, BULBS, PLANTS

AND

Florists' Necessities

AMERICAN BULB CO.

172 N. Wabash Ave., Chicago, Ill.

LILIUM FORMOSUM LILIUM HARRISII LILIUM GIGANTEUM

Prices on Application. Write for 1916
Bulb Catalog.

JOSEPH BRECK & SONS' CORP.
47-54 North Market St., Boston, Mass.

W. E. MARSHALL & CO. SEEDS, PLANTS AND BULBS Horticultural Sundries

166 W. 23rd St., NEW YORK

GARDEN SEED

BEEF, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
be quoted you upon application to

S. D. WOODRUFF & SONS
82 Dey St., NEW YORK and ORANGE, CONN

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

Penn
The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.

BOSTON

FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

MAX SCHLING

22 West 59th St.

Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

Established 1874

DARDS
FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York
Telephone 1599-1598 Columbus

Of Interest to Retail Florists

Columbia, S. C.—Columbia Floral Co.

Dubuque, Ia.—A. Konttis, 803 Main St.

Portland, Ore.—Oscar Moeller, Alder St.

Walla Walla, Wash.—Young & Lestor, 19 E. Main St.

New York, N. Y.—Claridge Flower Shop, 157 West 44th St.

New York, N. Y.—Lakeside Flower Shop, 4700 Sheridan Rd.

Roanoke, Va.—Wertz the Florist, removing to 213 S. Jefferson St.

Billings, Mont.—Billings Floral Co., 214 Broadway. J. L. Poitras, proprietor.

THE F. T. D. BUSY.

The Florists' Telegraph Delivery Association have sent out an attractive advertising window card, 14 x 22 in. for use by the members of the Association bearing a figure of Mercury delivering a flower message and the following inscription in a white plaque on green background:

GUARANTEED FLORAL SERVICE.

Flowers and floral greetings to your friends and relatives delivered anywhere in the United States or Canada on very short notice, by telegraph, mail or long distance. Best Service Guaranteed by the entire membership of the Florists' Telegraph Delivery Association.

We are local members and will see that you receive the best of service.

A CORRECTION.

The Pittsburgh Cut Flower Company's quotation on Boxwood Sprays as printed in HORTICULTURE'S issue of December 2 was a mistake. The price \$7.50, was intended to apply to 50 lbs. and not to 100 lbs as it appeared

Manchester, Mass.—The amount of \$20,000 has now been raised for the new hall of the North Shore Horticultural Society. A few hundred dollars more will fully cover the contracts and construction operations are about to begin.

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. - - - - BOSTON
Telephone Main 22.

**JOHN BREITMEYER'S
SONS**

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE

National Capital

At your service to deliver Flowers or Designs on Order by Telegraph or otherwise. Prompt Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

DANKER
ALBANY, N. Y.

**ALBANY
TROY
SCHENECTADY
RENSSELAER**

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

A. T. BUNYARD
NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction
MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND
A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1896 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L1532.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Mention Florists' Telegraph Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—F. A. Danker, 40 Maiden
Lane.

Albany, N. Y.—H. G. Eyres, 106 State
St.

Albany, N. Y.—The Rosery, 23 Steuben
St.

Albany, N. Y.—William C. Gloeckner, 97
State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont
St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

Los Angeles, Calif.—Howard & Smith,
833 So. Olive St.

New London, Conn.—Reuter's.

New York—J. H. Small & Sons, 505 Madi-
son Ave., at 52d St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 48th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Passaic, N. J.—Edward Seery.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

REUTER'S Members Florists' Telegraph Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only
THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F.T.D. Association

HOLLAND GROWERS TO DISCONTINUE AUCTION CONSIGNMENTS.

The Protective Association of Holland Nurserymen, in its meeting held at Boskoop, September 12th, 1916, resolved to submit for the signatures of its members a mutual agreement in which they bind themselves not to ship any nursery stock to the United States or Canada to be sold at public auction; any one found breaking this agreement to pay a fine of five hundred guilders. In the meeting of October 6th, 1916, the agreement was read and signed by all members present except one. The Association resolved that members who will not sign this contract shall be expelled from the Association. After being presented to all members, the agreement shows the signatures of 37 exporters, 5 members being unwilling to sign.

The contract reads, translated:

Mutual Agreement.

1. The undersigned (here follow the names of the 37 parties) all being professional nurserymen and (or) exporters of nursery stock, bind themselves mutually not to ship any plants, of whatsoever nature, neither directly nor indirectly, to the United States of America or Canada, with the intention of having the same sold at public auction. They declare that they will have broken this agreement and will be considered having sent plants directly for sale at public auction when they should have any interest whatsoever, or should participate either directly or indirectly in the shipment of plants to the United States of America or Canada for sale at public auction.

2. They bind themselves to have forfeited the sum of five hundred guilders as a fine whenever they should break this agreement and to pay this fine to Mr. H. L. Maarschalk, Notary Public, at Boskoop, the said Mr. H. L. Maarschalk being hereby authorized to claim this fine in or out of court.

3. They authorize Messrs. P. M. Koster and C. Grootendorst, nurserymen, residing at Boskoop, or any other persons to be appointed by the parties to this contract, to publish the contents of this agreement translated into the English language, with the names of the persons who signed it or the names of the firms under which they do business, in the trade papers of the United States and Canada, in such manner as Messrs. Koster and Grootendorst aforementioned shall deem to be in the interest of those concerned.

4. The fine, after being collected by Mr. H. L. Maarschalk following a breach of contract, shall be divided by this party as follows: One hundred guilders to be paid to the person producing evidence of the breach of this agreement (whether this person is a party to this contract or not and four hundred guilders to be divided equally among those who signed the agreement, with the exception of the one who did not live up to it.

5. This agreement is made for one year, and must be considered to remain valid for the same term, every year, unless anyone who signed it, informs one of the parties mentioned in clause 3 per registered letter, not less than six weeks before the expiration of a term, of his intention to withdraw. Messrs. Koster and Grootendorst are then authorized to publish this withdrawal of signature according to their best judgment.

6. This agreement takes effect on the first day of October, 1916.

Declared as agreed upon and signed this sixth day of October, 1916, by the following named, all of Boskoop except as otherwise noted:

J. Blaauw & Co., Bulk & Co., J. Boer Gz (East End Nurseries), Ebbinge & Van Groos, L. J. Endtz & Co., Felix & Dijkhuis, Van Gelderen & Co., F. J. Grootendorst & Sons, Guldemond & Co., W. C. Hage & Co., Van Helmingen Brothers & Co., Hugo T. Hooftman (Juliana Nurseries), Kallen & Lunne-mann, C. van Kleef & Co., W. van Kleef & Sons, Kluis & Koning, A. Koloos & Co., Gouda; H. Koolbergen, M. Koster & Sons, Koster & Co., W. Mesman & Sons; Michelsen & Co., Naarden; J. Mossel, Ottolander & Hooftman, H. den Ouden & Son, Jac. den Ouden, As. Ouwerkerk, K. Rosbergen &

For Christmas Delivery In Paterson and Passaic, N. J.

SEND TO

MEMBER
F. T. D.

EDWARD SCEERY

NATIONAL
FLORIST

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

Rochester, N. Y.

J. B. KELLER SONS, FLORISTS

25 Clinton Avenue, N.

Rochester Phone 306. Long Dist. Bell Phone 2786
Members Florists' Telegraph Delivery

Son, Schaum & van Tol, Schortinghuis & de Jonge, Sliedrecht & Co., Jan Spek; Jac. & Smits & Co., Naarden; Ven der Weyden & Co., Mr. D. G. Wiegand Bruss, Prop.; Verkade van Kleef, Waddinxveen; Vliesser Brothers, Naarden; K. Wezelenburg & Son, Hazerswoude.

CARNATIONS AT S. J. GODDARD'S

The proposed "field day" of the Gardeners' and Florists' Club of Boston at Framingham was at the last moment postponed until January on account of the heavy snow storm in progress. A half dozen of the more venturesome, however, carried out the program to the extent of a visit to S. J. Goddard's carnation houses and found plenty to fully compensate for the trip. Mr. Goddard is one of the growers who make a reputation for Boston carnations and his place is at all times a model of clean culture and good management. At present, however, interest is focussed on the house of Dorner seedlings and we were glad to see here indisputable evidence that the old time Dorner fame is destined to shine out in undimmed lustre in these new things now in training. Pink Sensation, we might say in starting, suits us; it is worthy of its name. Laddie is a salmon giant, but impresses us as rather coarse. Another nice salmon pink is No. 148. Rosalia, however, "hits the high spots" with a color unprecedented in carnations. The color is what the French call "ponceau," deep pink with a lively glow, and it has all the attributes of stem and vigor as produced here. No. 167 is a true scarlet, with color, form and fragrance leaving nothing to be desired. No. 34 is a handsome white, with pink pencillings, finely formed flower and enormous plant. There is another unique white with scarlet markings that will be heard from. Mr. Goddard says that next year he expects to have the place nearly all in Dorner novelties.

We cannot quit this interesting place without a word of comment on the other varieties seen in quantity.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO

Send Telegraph, Telephone or Mail orders for florist service in this vicinity to

Howard & Smith

853 SO. OLIVE ST.

Los Angeles, Calif.

Every Order sure to receive prompt and careful attention.

Mr. Goddard's favorites—Doris and Rosetta, are demonstrating every quality that has been claimed for them. Helen Goddard is still going strong and Matchless is still maintaining its right to its name. Mr. Goddard advises that Matchless should never be "topped" but left alone after it is planted inside. Gloriosa, like Pink Delight, is rather expensive to grow, owing to the smallness of the plants which necessitates "planting double" in the house. Nancy is a better plant and flower than Pink Delight, not quite as tall but superior in fragrance, and although not available for a very early crop it stands to put all the old light pink sorts out of the market.

Plant Propagation, Greenhouse and Nursery Practice

By M. G. KAINS

We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensive and practical, and it should meet with a ready sale among plantmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagating by buds, layering, cuttings, grafting, etc., fruit tree stocks, clones, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and halftone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of HORTICULTURE at publisher's price, \$1.50.

Horticulture Publishing Co.

147 SUMMER ST., BOSTON, MASS.

ALWAYS LEADERS!

When you buy Bayersdorfer & Co. goods you get the best in the world.

BUY YOUR FALL SUPPLIES NOW

BASKETS BASKETS BASKETS

Chrysanthemum Baskets in Japanese novelty tints.

RED—RED—RED—specialties for Christmas.

New Stock is in. Ready for You. A Rare Shipment of Imported Goods Just Received. Hampers and Flower Bowls.

Stock up now and have the goods to show customers. Send for prices and see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

NEWS ITEMS

BOSTON.

J. R. Shields who has conducted a greenhouse in Woburn for many years discontinued business last week and is now with J. W. Howard.

William J. Kennedy, a prominent figure in the Gardeners' and Florists' Club has been re-elected president of the Massachusetts State Employees' Benefit Association.

H. M. Robinson celebrated his twentieth wedding anniversary last Wednesday. The office and store employees presented him with a handsome leather armchair which, as Mr. Robinson is now thoroughly domesticated, will probably be very welcome.

The Filene department store building has been very tastefully festooned with garlands and wreaths of laurel and red material by John D. Twombly. The garlanding is such as is rarely seen, each loop heavy in the centre, and graduated gracefully to a point at the tips.

Growers in Tewksbury, Lowell and Danvers suffered a severe blow when C. S. Ketcham, transportation agent for many greenhouses in this vicinity, met with a serious accident while bringing their stock to market. While examining the storage battery it exploded, blinded him and gashed him about the face and hands. The doctor attending him advises that he may lose his eyesight permanently.

Excitement reigned, but no loss was sustained when nearly a half of Boston's fire apparatus crowded into Winthrop Sq. and vainly searched through the flower market and wholesale florist houses for a fire at about 3 P. M., Wednesday. After an hour's fruitless search the apparatus withdrew. Later it was discovered that an automatic sprinkler was responsible for the alarm and had put out the flames before the department arrived.

WASHINGTON, D. C.

Robert W. Pyle, of West Grove, Pa., delivered a lecture on the roses in the Arlington experimental gardens before the Takoma Park Citizens' Association at a meeting in Takoma Park last week.

As was the case four years ago when President Wilson was first inducted into the office, W. F. Gude will head the committee on illumination and will have charge of the additional electric installation which this year will make the entire downtown section a "Great White Way." Mr. Gude is picking a lot of "live-wire" assistants, included among them being a number of florists.

A. N. Pierson, of Cromwell, Conn., last week conferred with Marion Letcher, foreign trade advisor of the State Department, Senator George P. McLean and other officials in an effort to find some way in which to secure the immediate exportation from Denmark of a large quantity of lily of the valley pips which have been held up by the British Government on the ground that they were goods of enemy (German) production. Mr. Pierson assured the officials that the pips were strictly of Danish production and were "neutral" goods. He was informed that the State Department had a number of such cases in hand and that every attention would be given when these others were taken up with the British Government.

Worcester, Mass.—According to an order issued by the committee of arbitration which has been investigating the case of James E. Carrigan of 88 Coburn avenue, who claims to be an injured employe of H. E. Littlefield, a Worcester florist, Carrigan will not receive any compensation for his injuries and his claim, which was made under the provisions of the workmen's compensation act, has been dismissed.

SENSE AND SENTIMENT.

In a recent issue of the London Times the following advertisement appears:

"By the special desire of the late Clement Leigh Watson-Smith friends are requested not to send flowers at his funeral, but in lieu thereof a donation to the Faversham Cottage Hospital would be appreciated by his family."

The obvious comment which the average person would be inclined to make with regard to this unusual request would be that the money undoubtedly would do more good if donated to the hospital instead of being spent for flowers. But is there not another side to the question? Are we becoming so utilitarian in these latter days that our criteria of values are to be thus weighed and measured with such nice calculation?

The custom of bringing a few flowers to the bier of our beloved dead is one which, whatever its origin, expresses a sentiment which finds echo deep in the common heart of man. The parting from a loved one through death is a universal experience, one which sooner or later brings us face to face with the one insoluble mystery of life. Faith alone solves it in keeping with the longings of the human heart. Faith upholds and strengthens the fragile and tender hopes of love when love faces the cold and lifeless form of one beloved. Somehow there is an involuntary groping after some tangible expression of all this, and what more beautiful and appropriate form could it take than the bringing of an offering of a few fragrant blossoms to his grave? And why should such a perfect expression of love be marred by the utilitarian consideration as to whether the pittance spent might not be put to better use?

So, in spite of the apparent good sense of the gentleman's "special desire," we shall bring to the bier of each departing friend, as in turn they leave us through the coming years, an offering in keeping with the tender sentiment which prompts it—whether it be good sense or not.—*Macon (Ga.) News.*

CYPRIPEDIUMS

\$15.00 per 100

Gardenias—Bouvardia—Beauties

Each item you find with us in quantity. We
Specialize in Specialties.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262 B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Dec. 21		ST. LOUIS Dec. 1		PHILA. Dec. 18	
Roses						
Am. Beauty, Special	40.00	to 60.00	50.00	to 80.00	35.00	to 50.00
" " Fancy and Extra	15.00	to 30.00	35.00	to 40.00	20.00	to 35.00
" " No. 1 and culls	5.00	to 10.00	15.00	to 20.00	5.00	to 15.00
Russell, Hadley	5.00	to 20.00	10.00	to 15.00	4.00	to 35.00
Killarney, Hillingdon, Ward, Extra	5.00	to 12.00	10.00	to 12.00	8.00	to 12.00
" " Ordinary	5.00	to 6.00	5.00	to 8.00	4.00	to 8.00
Arenburg, Radiance, Taft, Key, Extra	10.00	to 15.00	.....	to	8.00	to 25.00
" " Ordinary	5.00	to 6.00	.....	to	4.00	to 8.00
Ophelia, Mock, Sunburst, Euler, Extra	8.00	to 15.00	12.00	to 15.00	8.00	to 15.00
" " Ordinary	5.00	to 6.00	5.00	to 10.00	4.00	to 8.00
Carnations	4.00	to 8.00	5.00	to 12.00	4.00	to 8.00
Cattleyas	35.00	to 75.00	60.00	to 75.00	60.00	to 75.00
Dendrobium formosum	.....	to 50.00	.....	to	60.00	to 75.00
Lilies, Longiflorum	8.00	to 12.00	12.00	to 15.00	12.50	to 15.00
Lilies, Speciosum	.....	to .....	.....	to .....	.....	to
Lily of the Valley	4.00	to 8.00	.....	to 6.00	4.00	to 8.00
Snappedragon	3.00	to 6.00	.....	to	6.00	to 15.00
Narcissi, Paper White	2.00	to 3.00	.....	to 3.00	3.00	to 4.00
Roman Hyacinths	3.00	to 4.00	.....	to	4.00	to 5.00
Calendulas	2.00	to 4.00	.....	to .....	.35	to 1.50
Violets	.75	to 1.00	.75	to 1.00	.....	to
Sweet Peas	.....	to .....	.50	to 1.00	1.00	to 3.00
Marguerites	1.00	to 2.00	2.00	to 3.00	1.00	to 3.00
Gardenias	.....	to 50.00	.....	to 50.00	23.00	to 50.00
Adiantum	.....	to 1.00	.....	to 1.00	.....	to 1.00
Smilax	12.00	to 20.00	.....	to 15.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	20.00	to 35.00	35.00	to 75.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568 570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture



RUSSELLS

In splendid shape for New Year's. All lengths, particularly the long ones.

Specials	\$40.00 per 100
Fancy	30.00 per 100
Extra	25.00 per 100
First	15.00 per 100
Second	10.00 per 100

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.

Flower Market Reports

BOSTON Considering the proximity of the final Christmas drive, the market is in a very perplexing state. Greenhouses are not producing and salesmen are cutting holiday orders in half on both roses and carnations. Long varieties of the former are impossibly expensive and the great bulk of business is being done with the short lengths. Chrysanthemums have entirely disappeared. Trumpet narcissi have made their season's first appearance this week. More calendulas could be disposed of if they could be obtained. Violets are in heavy demand, and are rather plentiful. The old favorite stevia is not passing unnoticed. Large shipments have been sold and more is still demanded. Lily of the valley has again reached empyrean heights, striking the \$10 mark.

BUFFALO Business good, stock scarce and prices ruling high. The supply of carnation for past two weeks has been very short, which has been helping the sale of short and medium roses, lilies and other stock. Fancy and special grades in roses are plentiful enough to take care of the demand but the merchant that has floral work is inconvenienced at times in securing material for this special purpose. There are good lily of the valley, violets and narcissus but chrysanthemums are practically ended except the Guenther Late Hamburg White. These blooms are ordered days in advance and sell at \$15.00 to \$35.00 per 100. Beauties are in normal supply and no special demand. The quality has been only ordinary. The sale of holly, laurel and other decorative stock has exceeded previous years. The plant trade is excellent with the supply rather short all around.

NEW YORK Stock of all kinds is very scarce in this market at the present time. Prices are high and the pros-

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Dec. 18	CHICAGO Dec. 17	BUFFALO Dec. 18	PITTSBURG Dec. 17
Roses				
Am. Beauty, Special.....	90.00 to 100.00	50.00 to 60.00	75.00 to 100.00	50.00 to 60.00
" " Fancy and Extra.....	50.00 to 85.00	40.00 to 50.00	40.00 to 60.00	30.00 to 40.00
" " No. 1 and culls.....	15.00 to 35.00	15.00 to 25.00	10.00 to 30.00	15.00 to 25.00
Russell, Hadley.....	20.00 to 40.00	5.00 to 30.00	15.00 to 35.00	8.00 to 15.00
Killarney, Hillingdon, Ward, Extra Ord.	15.00 to 20.00	8.00 to 10.00	15.00 to 20.00	8.00 to 12.00
Arenburg, Radiance, Taft, Key, Ex. Ord.	0.00 to 12.00	4.00 to 6.00	10.00 to 15.00	4.00 to 6.00
Ophelia, Mock, Sunburst, Euler, Ex. Ord.	1.00 to 25.00	2.00 to 12.00	12.00 to 20.00	8.00 to 12.00
Carnations				
Cattleyas.....	75.00 to 100.00	60.00 to 90.00	75.00 to 85.00	40.00 to 70.00
Dendrobium formosum.....	10.00 to 20.00	40.00 to 50.00	10.00 to 20.00	10.00 to 20.00
Lilies, Longiflorum.....	12.50 to 15.00	10.00 to 12.00	10.00 to 15.00	10.00 to 12.00
Lilies, Speciosum.....	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
Lily of the Valley.....	7.00 to 10.00	5.00 to 6.00	6.00 to 8.00	4.00 to 6.00
Snopdragon.....	6.00 to 8.00	8.00 to 12.00	6.00 to 15.00	4.00 to 6.00
Narcissi, Paper White.....	3.00 to 4.00	3.00 to 4.00	4.00 to 5.00	3.00 to 4.00
Roman Hyacinths.....	3.00 to 4.00	3.00 to 4.00	4.00 to 5.00	3.00 to 4.00
Calendulas.....	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
Violets.....	7.50 to 10.00	7.50 to 10.00	7.50 to 10.00	7.50 to 10.00
Sweet Peas.....	1.50 to 2.00	1.50 to 2.00	1.50 to 2.00	1.50 to 2.00
Marguerites.....	1.50 to 2.00	1.50 to 2.00	1.50 to 2.00	1.50 to 2.00
Gardenias.....	25.00 to 35.00	25.00 to 35.00	25.00 to 35.00	25.00 to 35.00
Adiantum.....	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Smilax.....	15.00 to 20.00	10.00 to 20.00	15.00 to 20.00	10.00 to 20.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00 to 50.00	25.00 to 50.00	35.00 to 50.00	40.00 to 50.00

pects are that by Saturday they will be still higher. From all indications it is safe to say that flowers generally will be limited in supply for Christmas deliveries although there is a possibility that Monday may see a serious set-back. While carnations are in very moderate crop, the outlook for roses is for a pretty heavy cut at the wind-up and the sale is likely to suffer on account of the prices de-

manded in advance. Cattleyas are not in oversupply but gardenias are more plentiful than of late. For advance orders pretty stiff prices are quoted. The figures at which Christmas deliveries are booked at present writing are approximately—Beauties, \$75 to \$100 for specials; other roses all the way from \$5 to \$25 with the exception of Hadley, which will run to

(Continued on page 57)

WE CARRY THE STOCK OF THE BEST GROWERS IN NEW ENGLAND
Roses, Carnations, Lilies, Orchids, Valley and all other seasonable flowers

We aim to please, a pleased customer is our best ad.

B. A. SNYDER CO., 278 Devonshire St., Boston, Mass.

(THE HOUSE OF QUALITY) Telephones Fort Hill 1083 and 1084

New England Florist Supply Co.
SPECIAL — 10 BARREL BALE Sphagnum Moss, \$3.50
276 Devonshire Street, BOSTON, MASS.

Fort Hill, 3169
TELEPHONES: Main, 1789 W

Open 6 a. m. to 7 p. m.

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephones: 2206, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street
Telephone No. 755 Farragut
New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST

109 WEST 28th ST
CONSIGNMENTS SOLICITED

PHONE 608 FARRAGUT NEW YORK
(609)

JOHN YOUNG & CO.
WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.
Tel. (1903) 5803 Mad. Sq. 119 W. 28 St., New York

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.

Wholesale Commission

READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE 2281 FARRAGUT 131 West 28th St., NEW YORK CITY
2089

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.
WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US
Prices Right. Consignments Solicited. Telephone Connection

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 2483 Farragut

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS
GARDENIAS, DAISIES, ROSES, CARNATIONS ON HAND

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones 1664 2901 Madison Square CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending Dec. 16 1916		First Half of Week beginning Dec. 18 1916	
American Beauty, Special	30.00	to 50.00	40.00	to 60.00
" " Fancy and Extra.....	15.00	to 20.00	15.00	to 30.00
" " No. 1 and culls.....	2.00	to 8.00	3.00	to 12.00
Russell, Hadley	4.00	to 30.00	3.00	to 20.00
Killarney, Hillingdon, Ward, Ex. and Sp.	3.00	to 8.00	3.00	to 15.00
" " Ordinary.....	2.00	to 3.00	3.00	to 5.00
Arenburg, Radiance, Taft, Key, Ex. and Sp.	3.00	to 8.00	3.00	to 15.00
" " Ordinary.....	2.00	to 3.00	4.00	to 6.00
Ophelia, Mock, Sunburst, Euler, Ex. and Sp.	3.00	to 10.00	8.00	to 12.00
" " Ordinary.....	.....	to 2.00	4.00	to 6.00
Carnations	3.00	to 4.00	3.00	to 10.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for do-
ing our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK
Phones 2036, 2037, 558 Farragut

Frank H. Traendly Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797, 798, 799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality

114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13-8510 Madison Square Consignments Solicited
MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 855)

double these figures; carnations, red, \$12 to \$15; other varieties, \$8 to \$12; violets \$1.50 to \$2. Next week we can tell the Christmas story for "hind-sight is invariably better than fore-sight."

PHILADELPHIA There is nothing much of interest to report on the week's business (13th to 19th). The near approach of Christmas week had its effect on prices which stiffened up considerably. Flowers were scarce and everything cleaned up well. On Wednesday (the 20th) Holiday figures went into force, and from all we can hear they are considerably higher than a year ago. This is true of plants as well as cut flowers. At this writing all the indications are for a very good Christmas for both grower and retailer.

WASHINGTON Prospects never looked brighter for an enormous Christmas business than they did in the early part of this week. It is expected that there will be just enough stock of all kinds to go around. Prices are high because of the general shortening up of the supply and early in the week the bottom price for roses was \$8 per hundred and from there they went to almost that amount per dozen. Carnations are quoted at from \$8 to \$12 per hundred and there are not enough to go around, red carnations being particularly scarce. There is a marked shortage of orchids and they will be replaced by gardenias that are now being offered at \$6 per dozen. Although chrysanthemums are about over with, there is still a limited quantity of exceptionally fine stock at \$25 per hundred. There is a heavy demand for sweet peas with the probability that the market will be sold out early. They will be replaced by violets of which there is a considerable quantity. Pot plants are selling very well and there seem to be enough of these to go around, despite the reported shortage of azaleas and other imported plants.

VISITORS' REGISTER.

Montreal, Canada—Patrick Welch, Boston.

Philadelphia—M. Henry Lynch, West Grove, Pa.; E. A. Seidewitz, Baltimore, Md.; Mrs. H. Dundore Moore, Lancaster, Pa.; Chas. Vorkeller, So. Bethlehem, Pa.

Washington, D. C.—F. V. Covey, Fredericksburg, Va.; Julius Dilloff, New York; Frank Fischer, New Castle, Pa.; G. X. Amrhy, New Haven, Conn.; A. J. Egloff, Buffalo, N. Y.; A. N. Pierson, Cromwell, Conn.; Oscar Haase, New York, N. Y.; Joseph Goudy, H. A. Dreer, Philadelphia, Pa.; Thomas Cogger, Melrose, Mass.; S. A. Starr, Goldsboro, N. C.; Robert Pyle, West Grove, Pa.; Arthur Niessen, Philadelphia.

Telephone 3560 Madison Square

WOODROW & MARKETOS
WHOLESALE
Plantmen and Florists
37 and 39 West 28th St., NEW YORK

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M.

HERMAN WEISS WHOLESALE FLORIST

Can handle shipments of growers' product satisfactorily. Would like to hear from Growers of Daisies, etc., for the New York trade.

106 West 28th St., NEW YORK
Tel. Farragut 3066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Dec. 16 1916	First Half of Week beginning Dec. 18 1916
Cattleyas.....	25.00 to 60.00	30.00 to 75.00
Dendrobium formosum.....	..... to 50.00	..... to 50.00
Lilies.....	5.00 to 8.00	10.00 to 12.00
Lilies, Speciosum.....	2.00 to 6.00	8.00 to 10.00
Lily of the Valley.....	4.00 to 6.00	4.00 to 6.00
Snapdragon.....	2.00 to 4.00	10.00 to 20.00
Narcissi, Paper White.....	2.00 to 4.00	2.00 to 3.00
Roman Hyacinths.....	4.00 to 25.00	3.00 to 4.00
Calendulas.....	..... to 1.00	8.00 to 6.00
Violets.....	.50 to 1.00	.50 to 1.25
Sweet Peas.....	..... to 1.00	.50 to 2.00
Marguerites.....	1.00 to 2.00	.50 to 1.00
Gardenias, per doz.....	20.00 to 40.00	12.00 to 25.00
Adiantum.....	.50 to 1.00	.50 to 1.00
Smilax.....	6.00 to 12.00	8.00 to 15.00
Asparagus Plumosus, & Spreng. (100 bunches).....	10.00 to 25.00	15.00 to 25.00

ORCHIDS - - GARDENIAS

HEADQUARTERS for the entire output of the

BEECHWOOD HEIGHTS NURSERIES, of Bound Brook, N. J.

PAUL MECONI — Wholesale Florist — NEW YORK

Telephone Nos. 3864 and 8364 Madison Square

57 WEST 26th STREET

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square
BOSTON, MASS.

Telephone 2618-2617-2616, Main.

William Stuart Allen Co.

Commission Merchants in

CUT FLOWERS

53 West 28th Street, NEW YORK

Telephone—356 Madison Square.

VIOLETS

B. S. SLINN, Jr., 55-57 W. 26th St.
NEW YORK

Send Flower Consignments to

L. B. NASON

Wholesale Florist

116 West 28th St., NEW YORK CITY

Shipping Orders Carefully Filled.

Correspondence solicited.

Telephone, Farragut 2245.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co.

(INC.)

Wholesale Commission Florists

47 WEST 28th STREET, NEW YORK

Telephone, Madison Square 5296-5297

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of
Good Stock Solicited

111 W. 28th St., - NEW YORK

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street

167 & 3058 Farragut NEW YORK

Established 1888 Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists

110 West 28th St., New York

We Solicit Consignments of New
England Grown Novelties.

Beechwood Heights Nurseries

Importers and Growers of

ORCHIDS

Cut Flowers of All the Lending Varieties
in their Season.

THOMAS YOUNG, Jr., Proprietor

BOUND BROOK, N. J.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display Advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-
LINGDALE GREENHOUSES, Collingdale, Pa.

AUCTION SALES.

Elliott Auction Co., New York City.
Plant Auctioneers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

Henry A. Dreer, Philadelphia, Pa.

BAY TREES. Write for wholesale price-
list.

JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

BEGONIAS.

Mrs. J. A. Peterson (New), 2 1/4 in. pots,
\$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda,
N. Y.

"King Ideal" Boiler.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Hitchings & Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made.
Write for list. HOLTON & HUNKEL CO.,
Milwaukee, Wis.

BOX TREES

August Rolker & Sons, New York City.
For page see List of Advertisers.

BOX TREES—Standards, Pyramids and
Bush. Price list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

BULBS AND TUBERS

F. R. Pierson, Tarrytown, N. Y.
List of Surplus Bulbs at Reduced Prices.

J. M. Thorburn & Co., New York City.
Lilium Harrisii.
For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
French and Dutch Bulbs.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
French, Japan, Holland and Cold Storage
Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Henry F. Mitchell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.
For page see List of Advertisers.

Harry Quint, Boston, Mass.
Superior Quality Paper White Narcissus.

Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

Albert Roper Estate, Tewksbury, Mass.
New Carnation Albert Roper.
For page see List of Advertisers.

CARNATION STAPLES

Split carnations quickly, easily and
cheaply mended. Pillsbury's Carnation
Staple, 1000 for 35c.; 3000 for \$1.00 post-
paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Charles H. Totty, Madison, N. J.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
Pompon Chrysanthemums.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
New Chrysanthemum for 1917.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Or Frank Dinda, Farmingdale, N. Y.
Chrysanthemum—Alex Guttman.
For page see List of Advertisers.

CINERARIAS

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

ORDERS BOOKED ANY TIME
For Fall or Spring delivery. Wholesale and
Retail. Send for Catalogue. NORTHBORO
DAHLIA & GLADIOLUS GARDENS, J. L.
Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest,
Best. New color, new form and new habit
of growth. Big stock of best cut-flower
varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Julius Roehrs Co., Rutherford, N. J.
Choice Flowering and Foliage Plants.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

For Plants and Cuttings get our prices
before ordering elsewhere. Our guarantee
with every order. Write for a copy of our
latest Plant Bulletin.

Asparagus	Cyclamen	Primula
Begonias	Daisies	Smilax
Bulbs	Dracaena	Snapdragons
Calceolaria	Ferns	Violets
Calendula	Geraniums	
Cineraria	Hydrangeas	

S. S. PENNOCK-MEEHAN COMPANY,
Philadelphia, 1608-1612 Ludlow St.
Baltimore, Franklin and St. Paul St.
Washington, D. C., 1216 H St., N. W.
New York, 117 W. 28th St.

FERNS

A. M. Davenport, Watertown, Mass.
Small Ferns for Dishes.
For page see List of Advertisers.

For List of Advertisers See Page 835

FERNS—Continued

R. Vincent, Jr., & Sons Co., White Marsh,
Maryland.
Boston Ferns.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
For page see List of Advertisers.

Wm. Elliott & Sons, New York City.
Clay's Fertilizers.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Boston Florists' Supply Co., Boston, Mass.
Cycas, Baskets and Wax Goods.

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FLOWER POT WASHERS

Fowler Mfg. & Supply Co., Cleveland, Ohio.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums, S. A. Nutt, 2 in., \$2.00 per
hundred, \$18.00 per thousand; rooted cut-
tings, \$12.00 per thousand. Cash. Also few
white cuttings and 2 in. W. E. ALLEN,
Leominster, Mass.

GLADIOLI

John Lewis Childs, Flowerfield, L. I., N. Y.
New Catalogue.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Louis Cohen, New York City.
Window and Plate Glass.
For page see List of Advertisers.

Royal Glass Works, New York City.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

GLASS—6 x 8, 8 x 10, 10 x 12, 10 x 14, \$1.90
per box. Other sizes at factory prices.
C. N. ROBINSON & BRO., Dept. 29, Balti-
more, Md.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GOLD FISH

Gold fish, aquarium plants, snails, cas-
tles, globes, aquarium, fish goods, nets,
etc., wholesale. FRANKLIN BARRETT,
Breeder, 4815 D St., Olney, Philadelphia,
Pa. Large breeding pairs for sale. Send
for price list.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset,
Boston.
Pecky Cypress.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.

William H. Lutton Co., Jersey City, N. J.

Hitchings & Co., New York City.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit,
Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

HOSE

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

H. A. Dreer, Philadelphia, Pa.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co.,
Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Mass.
For page see List of Advertisers.

INSECTICIDES

Hammond's Paint & Slug Shot Works,
Beacon, N. Y.
Hammond's Thrip Juice No. 2.
For page see List of Advertisers.

Aphine Manufacturing Co., Madison, N. J.
Aphine.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Lemon Oil Insecticide.
For page see List of Advertisers.

IVIES

A. M. Davenport, Watertown, Mass.
English Ivies.
For page see List of Advertisers.

LILY BULBS.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Lillium Harrisii Bulbs.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Lillium Giganteum.
For page see List of Advertisers.

Roman J. Irwin, New York City.
For page see List of Advertisers.

Yokohama Nursery Co., Ltd., New York
City.
Lillium Giganteums.
For page see List of Advertisers.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hobmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.
Hartboro, Pa.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

A. Koloos & Co., Gouda, Holland; also
L. Vanheerde, care Maltus & Ware,
14 Stone St., New York City.
Holland Grown Roses, Plants and Shrubs.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

P. Ouwerkerk, Weehawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Holland Nursery Stock.
For page see List of Advertisers.

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

ORCHID PLANTS

Beechwood Heights Nurseries,
Bound Brook, N. J.
Importers and Growers of Orchids.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Francisco Delgado Q, Bogota, Colombia.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

PEONIES

F. J. Grootendorst & Sons, New York City.
Herbaceous Chinese Peony Lord Kitchener.

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
For page see List of Advertisers.

PIPE AND FITTINGS.

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
For page see List of Advertisers.

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Hardy Roses.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

**ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.**

A. Koloos & Co., Gouda, Holland; also
L. Vanheerde, care Maltus & Ware,
14 Stone St., New York City.
For page see List of Advertisers.

SASH

STANDARD HOTBED SASH, with cross
bar, 85c. each; lots of 25 and over, 80c.
each. Satisfaction guaranteed or money
refunded. Glass 6x8, 8x10, 10x12 or
10x14, \$1.90 per box of 50 sq. ft.
C. N. ROBINSON & BRO., Dept. 29, Balti-
more, Md.

SCARLET SAGE SEED

D. Landreth Seed Co., Bristol, Pa.
For page see List of Advertisers.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
Shamrock Seed
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
Flower Seed for Early Sowing.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Amt. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Seeds, Selected Strains.
For page see List of Advertisers.

SEEDS—Continued

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
For page see List of Advertisers.

Roman J. Irwin, New York City.
For page see List of Advertisers.

S. D. Woodruff & Sons, New York City and
Orange, Conn.
Garden Seeds.
For page see List of Advertisers.

Fottler, Fisk, Rawson Co., Boston, Mass.
Seeds for the Florist
For page see List of Advertisers.

Clematis paniculata, Stokesia cyanea and
other seeds. BENJ. CONNELL, Florist,
Merchantville, N. J.

SHAMBOCK SEED

Arthur T. Boddington, New York City.
For page see List of Advertisers.

SPHAGNUM MOSS

New England Florist Supply Co., Boston,
Mass.
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

For List of Advertisers See Page 835

WHOLESALE FLORISTS Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 568-570 Washing-
ton St.
For page see List of Advertisers.

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.

Zech & Mann, 30 East Randolph St.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 264-266
Randolph St.
For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
For page see List of Advertisers.

Hentz & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Traendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

Paul Meconi, 57 West 28th St.
For page see List of Advertisers.

Woodrow & Marketos, 37 and 39 W. 28th St.
For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

WHOLESALE FLORISTS New York—Continued

John Young & Co., 53 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Guttman & Raynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunther Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

George W. Crawbuck Co., 47 West 28th St.
For page see List of Advertisers.

William Stuart Allen Co., 53 West 28th St.
For page see List of Advertisers.

L. B. Nason, 116 West 28th St.
For page see List of Advertisers.

B. S. Slinn, Jr., 55-57 West 26th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ranstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.

THE NUT-GROWER

The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

To Our Readers

Please
Look
Carefully
through the ad-
vertisements in
this paper and
you will surely
Find
Something
You
Want.

You Can Never
Buy Cheaper
Than Now!

TREES, SHRUBS, VINES and HERBACEOUS PERENNIALS

By JOHN KIRKEGAARD
Formerly Assistant to Director of the Royal
Botanical Gardens, Copenhagen, Denmark.
Latterly Twenty Years in American For-
estry and Botanical Work.

Assisted by DR. H. T. FERNALD,
Professor of Entomology Massachusetts
Agricultural College and Entomologist,
Massachusetts Agricultural Experiment
Station.

and PROF. E. A. WHITE,
Professor of Floriculture, New York State
College of Agriculture at Cornell Univer-
sity.

A Great Book A Beautiful Book
A Comprehensive Book
A Practical Book By Practical Men
There Is No Other Book Like It

410 Pages. Planting Plans. Tabular De-
scription and Classification of Species. 59
Full-Page Illustrations in Tone. Authorita-
tive Articles on Many Subjects.

New Edition

BEAUTIFULLY BOUND IN CLOTH
Price only \$2.50 net. Mailing
Price, \$2.71. Money-Back
Guarantee

Order it from HORTICULTURE
147 Summer St., Boston

In writing to Advertisers kindly mention Horticulture

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Writes for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago**DREER'S "Riverton Special" Plant Tub**

No.	Diam.	Each	Doz.	100
10	20 in.	\$1.60	\$17.50	\$145.00
20	18 in.	1.35	15.50	130.00
30	16 in.	1.10	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	28.00

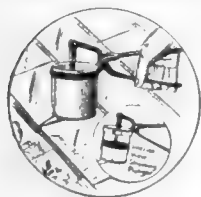
Manufactured for us exclusively. The best tub ever introduced. The neatest lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.**NEWS NOTES**

Alliance, Neb.—The Alliance Greenhouses have been purchased by Edward Tatro.

Springfield, Mass.—Owing to the failure of the Springfield Home for Aged Men to take over the Gurdon Bill Mansion in Liberty street under the conditions imposed by his will, a permit has been granted for its demolition. The property will be cleared of all buildings and will be turned into an arboretum under the care of the city.

Detroit, Mich.—The Detroit Flower Pot Co. announce that they have closed their factory indefinitely, because of the labor and fuel conditions, car shortage, embargoes on freight, smoke ordinance and other matters over which they have no control, hoping that at some future period they may be able to renew.

**The Only Perfect
Liquid Putty Machine**

Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

SEAL TIGHT LIQUID PUTTY\$1.35 per Gallon in 10 Gallon lots
\$1.40 per Single Gallon**METROPOLITAN MATERIAL CO.**
1392-1414 Metropolitan Ave., Brooklyn, N. Y.**GREENHOUSES BUILDING OR CON-
TEMPLATED.**

Fremont, O.—A. S. Horn, addition.

Schenectady, N. Y.—Chas. Kearney, one house.

Bloomington, Ill.—Washburn & Sons, two rose houses.

Shamokin, Pa.—Grover B. Reichley, house 20 by 100.

Germantown, Pa.—Zieger & Sons, two King houses.

Osprey, Fla.—Mrs. Potter Palmer, propagating house.

Garland, Utah.—Mrs. H. Schneider, one house, completed.

Rochester, N. Y.—Carl F. Lomb, East Ave., one house.

Lancaster, Pa.—Boys' Industrial School, vegetable house.

Ottawa, Ont.—R. H. Wright, 54 Sparks St., conservatory.

Alhambra, Cal.—Gesler & Davis, West Main St., one house.

Providence, R. I.—Frederick Deitz, 23 French St., additions.

Westfield, Mass.—John H. Fowler Co., range of vegetable houses.

Marysville, Kan.—H. R. Fisher, two Moninger houses in the spring.

Philadelphia, Pa.—J. Wm. Colflesh's Sons, three houses each 17 by 50.

PATENTS GRANTED.1,208,243. Lawn-Sprinkler. Edward J. Vondenbosch, Los Angeles, Cal.
1,208,262. Lawn-Sprinkler. Frank G. Wood, San Francisco, Cal.**NON-KINK WOVEN HOSE**

In any length (one piece) with couplings, 15c. per foot. Unequalled at the price.

**Hose Valve, 70c.**

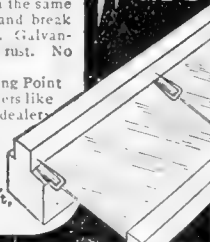
All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

**Dreer's Peerless
Glazing Points
For Greenhouses**

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.
Samples free.
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.**FULL
SIZE
No. 2****STANDARD FLOWER****POTS**

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST

29th & M Sts., Washington, D. C.

**LOUIS COHEN
Window and Plate Glass**

86 1st Avenue, NEW YORK CITY

Double Thick 16/24 for the Florist**A SPECIALTY. WRITE ME FOR PRICES.****Evans 20th Century Arm**

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

FOLEY MATERIALS

ARE THE BEST FOR
Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, - - - - - CHICAGO, ILL.

CYPRESS GREENHOUSE STOCK

PECKY CYPRESS BENCH STOCK

HOT BED SASH

Ask for Circular D and Prices

THE A. T. STEARNS LUMBER COMPANY

NEPONSET, BOSTON

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

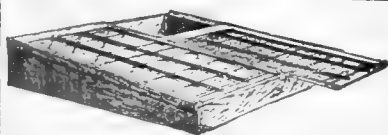
MASTICA



For Greenhouse
Glazing
USE IT NOW

F. O. PIERCE CO.
12W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



HOTBED SASH at 80c. each

Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.

Double Light Sash up to \$4.00.

We carry a large stock of all sizes.

Write us for estimate

S. JACOBS & SONS

1359-1385 Flushing Avenue BROOKLYN, N. Y.

The Florists Hall Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address
JOHN G. ESLER, Sec., Saddle River, N. J.



START

the New Year right by equipping your houses with Advance Sash Operating Device and Greenhouse Fittings.

Catalog free

Compliments of the season to all.

ADVANCE CO.

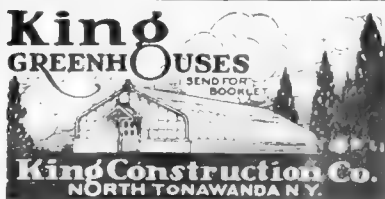
Richmond, Indiana

GREENHOUSE GLASS

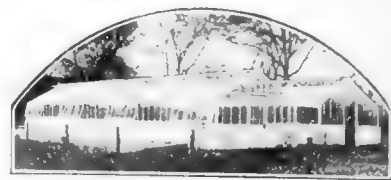
Double and single thick selected glass all sizes from 6x8 to 16x24. Ten boxes or more at wholesale prices.

ROYAL GLASS WORKS

120 Wooster Street NEW YORK CITY



Duplication Proves Satisfaction



Mr. P. H. Burton of Glenside, Pa., was so highly gratified by the results he achieved with his first Metropolitan Greenhouse, that he specifically instructed us to plan his new one identically the same as the other.

After a whole year of experience with Metropolitan construction, he decided that no change could possibly improve upon it.

His duplication proves his satisfaction. We can do as well for you.

PUT YOUR GREENHOUSE PROBLEMS UP TO US

We go anywhere in the U. S. to submit plans and prices.

METROPOLITAN MATERIAL CO.

Patented Greenhouses.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

GLASS

**GREENHOUSE MATERIAL
HOT-BED SASHES**

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

PATENTS

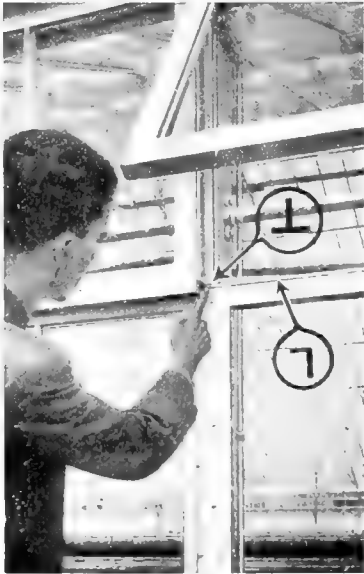
Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



The sash closes AGAINST a steel angle sill, not on top of a wooden one. It swings up tight to the T-Bar division piece, between ends of the sash.



Note that the galvanized drip gutter is separate from the eave; not part of it. It's been tried both ways and we have proven that this way is the best way.



Here is the first really successful counterbalanced gear. Runs up as easy as it runs down.

Some Construction Odds and Ends Worth Knowing About

TAKE our handling of the side ventilating sash on the Iron Frame house. Instead of closing it down on top of a wooden sill, that in spite of anything that you can do, will swell causing the sash to stick; we close it against the edge of an angle iron. No swelling; no freezing; no sagging makes any difference with its easy working. Always it opens and closes without sticking.

Then another thing; instead of using a cypress piece between the runs of sash, we use a T-bar against which the sash fit on either side of the metal division.

Now take the post. It is guaranteed Wrought Iron secured to the steel rafters by double gusset plates. The galvanized angle iron eave



The center door lifts out. The doors on both sides are hinged to the side posts which fit against the gable rafters.

plate is equipped with a U-shaped drip gutter. Being independent of the eave itself; the clogging objection of a combined eave and drip gutter is overcome. Like the eave plate, the drip gutter is also galvanized.

And so if we could sit down with you and point out point by point; the superior points in our construction; you would be surprised to find out in how many important ways it differs so differently from other constructions.

Differences that many times over make up any differences in cost.

When you make up your mind you want a house of Everlasting Longness; then let's get together and talk things over.

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

SALES OFFICES:

NEW YORK
42nd Street Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Widener Bldg.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.

CLEVELAND
Swetland Bldg.

TORONTO, CANADA, Royal Bank Bldg.

MONTREAL, CANADA, Transportation Bldg.

FACTORIES: Irvington, N. Y. Des Plaines, Ill. St. Catharines, Canada.

Vol. XXIV
No. 27
DEC. 30
1916

HORTICULTURE



Miss Perle B. Fulmer, Des Moines, Iowa
President, Ladies S. A. F.

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription, \$1.00

KEEP IN TOUCH WITH BOSTON

Boston is receiving more new Material for the Garden than any other city in the world.

The Arnold Arboretum in recent years has brought to Boston from China alone over 1500 new plants, besides many from other sources. R. & J. Farquhar & Co., of Boston are propagating and disseminating these new plants. Get Farquhar's catalogue and watch their advertisements in this paper next week.

*Subscribe now for "Horticulture"
and thereby*

KEEP IN TOUCH WITH BOSTON

GERANIUMS

We have the best stock in better condition than we have ever had, and are in a position to take care of your orders in fine shape.

ALPHONSE RICARD, BEAUTE POITEVINE, JEAN VIAUD, EDMOND BLANC and SCARLET BEDDER, \$2.00 per 100, \$20.00 per 1000 for 2-in.; \$3.00 per 100, \$30.00 per 1000 for 3 in.

S. A. NUTT, GENERAL GRANT, MAD. BUCHNER, MAD. RECAMIER, JEAN OBERLE, ABBIE SCHAFFER and E. H. TREGO, etc., \$2.00 per 100, \$18.50 per 1000 for 2-in.; \$3.00 per 100, \$18.50 per 1000 for 3-in.

BOSTON FERNS

7-in., \$6.00 per doz.; 8-in., \$1.00 each, \$9.00 per doz. Large Plants, in 11 and 12-in. pots, from \$2.00 to \$5.00 each.

ACALYPHA, \$2.00 per 100, \$20.00 per 1000 for 2-in.; \$3.00 per 100, \$30.00 per 1000 for 3-in.

ASPARAGUS SPRENGERI, \$5.00 per 100 for 3-in.

ALTERNANTHERA, AGERATUM, BEGONIAS, COLEUS, CUPHEA, HARDY ENGLISH IVY, HELIOTROPE, LEMON VERBENAS, LANTANAS, MOONVINES, PARLOR IVY, PETUNIAS, POMPOON CHRYSANTHEMUMS, SALVIA BONFIRE and ZURICH, SWAINSONA, white, \$2.00 per 100, \$18.50 per 1000 for 2-in.; \$3.00 per 100, \$30.00 per 1000 for 3-in.

Rooted Cuttings of the following: Coleus, 10 varieties including Golden Bedder and Verschaffeltii; Heliotrope, Chieftain, Ageratum Blue and White, \$0.75 per 100 post paid, \$5.00 per 1000 by express not prepaid.

CASH WITH ORDERS.

R. VINCENT, Jr., & SONS CO., WHITE MARSH, MD.

WE IMPORT

To Order, for the Trade Only, Spring or Fall Delivery

GIGANTEUM and other forcing and hardy LILIES, KENTIA and other PALMS and Exotic plants; also PALM SEEDS; RHODODENDRONS, AZALEAS, BUXUS, LAURUS Plants, and FRENCH and DUTCH forcing BULBS; also all NURSERYMEN'S TREES, EVERGREENS and ORNAMENTAL SHRUBS. Address for detail

AUGUST RÖLKER & SONS, P. O. Box 752, New York
or 51 Barclay Street,

LILY BULBS

RALPH M. WARD & CO.
71 MURRAY ST., NEW YORK

When writing to advertisers kindly mention *HORTICULTURE*.

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

CHAS. SCHWAKE & CO., Inc.

Valley

GERMAN, SWEDISH
AND DUTCH PIPS

90-92 West Broadway, New York

LIST OF ADVERTISERS

Page	Page	Page	Page	Page
Advance Co.....894	Cooke, Geo. H.....882	Gude Bros. Co.....882	Kuebler, W. H.....888	Penn the Florist.....882
Albany Cut	Cowee, W. J.....886	Gunther Bros.....889	Lager & Hurrell.....877	Pierce Co., F. O.....895
Flower Ex.....888	Craig, Robt. Co.....868	Guttman & Ray-	Landreth Seed	Pierson, A. N.....877
K.....889	Crawback, Geo.	nor .....877-888	Co., D.....880	Pierson, F. R.....868
Allen, Wm. Stu-	W. Co.....889	Hail Association.....895	Lange, H. F. A.....883	Poehlmann Bros.
art .....889	Dunker, F. A.....882	Hammond Paint	Lemon Oil Co.....879	Co.....886
American Bulb	Dards .....882	& Slug Shot	Leonard Seed Co.....881	Randall's Flower
Co.....881	Davenport, A. M.....868	Works .....879	McHutchison &	Shop .....883
Anderson, S. A.....883	Delgado Q. Fran-	Hart, Geo. B.....888	Co.....868	Reed & Keller.....886
Aphine Mfg. Co.....879	cisco .....877	Henderson, A. &	McManus, Jas.....888	Riedel & Meyer.....888
Badgley & Bishop,	Dinda, Frank.....877	Co.....881	McConnell, Alex.....882	Reid, Edw.....886
Inc.....888	Dorner, F. &	Hentz & Nash.....888	Marshall, W. E.	Reuters .....883
Barrows & Son.....877	Sons Co.....877	Hess & Swoboda.....883	Co.....881	Robinson, H. M.
Bayersdorfer, H.	Dreer, H. A.....895	Hews, A. H. &	Mecconi, Paul.....889	& Co.....889
Co.....885	Dudley, W. G.....893	Co.....894	Metropolitan Ma-	Robinson, H. M.
Bay State Nur-	Dunlop, John H.....883	Hill, E. G. Co.....886	terial Co.....894-895	Co.....888
series .....868	Dysart, Robert.....882	Hill, D. Nursery	Michell, H. F.	Rochrs, J. Co.....877
Beachwood Hights	Eastern Chemical	Co.....868	Co.....877	Roland, Thomas.....883
Nurseries .....889	Co.....879	Hitchings & Co.....896	Michigan Cut	Rolker, A. &
Eobbink & At-	Edwards Folding	Holland Nurser-	Flower Ex.....886	Sons .....867
kins .....868	Box Co.....886	ies .....868	Millang, Chas.....888	Roper Estate, Al-
Boddington, A. T.....875	Elliot, Wm. &	Holm & Olson.....883	Murray, Samuel.....882	bert .....878
Boligiano & Son.....881	Sons .....879	Howard & Smith.....884	Nason, L. B.....889	Rosery, The.....884
Breck, J. & Sons.....881	Ernest, W. H.....894	Irwin, R. J.....881	National Nur-	Royal Glass Co.....895
Breitmeier's, J.	Esler, J. G.....895	Jacobs, S. &	seymann .....868	Schling, Max.....882
Sons .....882	Evans, J. A. Co.....895	Sons .....895	N. E. Florist Sup-	Schwake, Chas.
Budlong, J. A.....886	Farquhar, R. &	Kasting, W. F.	ply Co.....887	Co.....867
Bunyard, A. T.....882	Co.....866-881	Co.....886	Nicotine Mfg.	Sharp, Partridge
Burnett Bros.....881	Foley Mfg. Co.....895	Keller, J. B. Sons.....884	Co.....879	& Co.....895
Bunpee, W. A. &	Ford, W. P.....888	Kidway & Son.....881	Niessen, Leo Co.....886	Sheridan, W. F.....888
Co.....881	Ford, M. C.....888	Kerr, the Florist.....883	Nut Grower.....893	Siebrecht, Geo. C.....888
Carte's Tested	Froment, H. E.....888	Korvan Co.....888	Ouwkerk, P.....868	Siebrecht, W. R.....888
Seeds, Inc.....880	Galvin, Thos. F.....883	King Construc-	Palmer, W. J. &	Siggers & Sig-
Childs, John	Gasser Co., J. M.....883	tion Co.....895	Son .....883	ers .....895
Lewis .....868	Graham, Adam &	Knoble Bros.....883	Park Floral Co.....881	Skidelsky, S. S.
Clarke's D. Sons.....882	Son .....883	Koloos, A. & Co.....868	Parshelsky Bros.....895	& Co.....881
Coan, J. J.....889	Grey, Thos. J.	Kramer, F. H.....883	Pennock-Meehan	Shinn, B. S., Jr.....889
Cohen, Louis.....895	Co.....881	Kroeschell Bros.....894	Co.....887	

FOR BUYERS' DIRECTORY AND READY REFERENCE GUIDE
SEE PAGES 890, 891, 892, 893

A. KOLOOS & CO.**WRITE TODAY****WRITE TODAY****Now is the Time to Order Your Plants and Shrubs to Secure Early Spring Delivery**

Such as Azalea, Aucuba, Boxwood, Blue Spruce, Conifers, Clematis, Hydrangea, Lilacs, Laurels, Japanese Maples, Roses, Rhododendrons. American Hardy varieties one of our specialties, and all other Hardy shrubs for forcing or outdoor.

ROSES, Bush, Tree and Climbers in more than 300 sorts, including the leading and new up to date varieties are offered by us.

LET US QUOTE YOU ON YOUR LIST OF WANTS.*Copy Wholesale Catalogue 1917-18 Free on Application from***MR. L. VANHEERDE, c/o Maltus & Ware, 14 Stone St., New York****WRITE TODAY****WRITE TODAY****EXPORT NURSERIES**

GOUDA

HOLLAND

IF in need of RELIABLE NURSERY STOCK

that is well grown, well dug and well packed

Send to the BAY STATE NURSERIES*Wholesale and Retail***NORTH ABINGTON, MASS.****ENGLISH IVIES**

3 in., \$8.00 per 100; 3½ in., \$10.00 per 100; 4 in., \$12.00 per 100

SMALL FERNS FOR DISHES

Plenty of Holly and Aspidium 2¼ in., \$4.00 per 100; \$35.00 per 1000. Adiantum rhodophyllum and cuneatum, 3½ in., very strong plants, \$8.00 per 100.

A. M. DAVENPORT, Watertown, Mass.**JAP LILY BULBS***At Import Prices*

GIGANTEUM,	7-9, 8-10, 9-10, 10-11.
MULTIFLORUM,	7-9, 8-10.
AURATUM,	7-9, 9-11.
ALBUM,	9-11.
RUBRUM,	7-9, 8-10, 9-11.
MELPOMENE,	9-11.

Giganteum, 7-9, 8-10 and 9-10 also offered F. O. B. Chicago and London, Ont. Write for prices and details, stating quantity desired.

McHutchison & Co.*THE IMPORT HOUSE***95 Chambers St., New York****F. R. PIERSON CO.****FLORISTS AND PLANTSMEN****TARRYTOWN-ON-HUDSON, - N. Y.****ELMER D. SMITH & CO.
CHRYSANTHEMUMS***Ask for Catalogue***ADRIAN, - - - MICH.****ROBERT CRAIG CO.****ROSES, PALMS,**

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.**GLADIOLI****New Catalogue Ready****JOHN LEWIS CHILDS, Inc.****FLOWERFIELD, L. I., N. Y.****Little Ads. That Bring Big Returns**

Little Ads. in our Classified Buyers' Directory bring big returns to both advertiser and purchaser.

Anything wanted by florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium.

THEY COST ONLY ONE CENT**A WORD UNDISPLAYED**

Don't fail to read over these Ads. in each issue and you may find one or more that will prove profitable to you.

**THE
National Nurseryman**

The oldest and best established journal for nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.50 per year. Foreign subscriptions, \$2.00 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

**National Nurseryman Pub. Co., Inc.
HATBORO, PA.****Nursery Stock**

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Boes.

*Write for Trade List.***W. & T. SMITH COMPANY, Geneva, N. Y.****HOLLAND NURSERIES**

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St., Weehawken Heights
P. O. No. 1, Hoboken N. J.**HILL'S EVERGREENS**

BEST FOR OVER HALF A CENTURY. Small, medium and large sizes supplied. Price list now ready.

THE D. HILL NURSERY CO.
Evergreen Specialists. Largest Growers in America.**BOX 415, DUNDEE, ILL.****BOBBINK & ATKINS****Nurserymen, Florists
and Planters****RUTHERFORD, NEW JERSEY**

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toll, we ought to blame the culture, not the soil."—Pope.

Care of Sweet Peas

If the stems show any signs of becoming shorter a watering of liquid cow or sheep manure once in two weeks will help them. A top dressing of well decayed cow or pulverized sheep manure is better if lightly forked into the ground before watering. It is better to avoid all chemicals at this season, for unless applied with great caution, they will do far more harm than good. If the plants are covered with buds and in good health, with small fibrous roots coming to the surface, a light mulch will do them good. Feeding must be given with care. The plants are unable to assimilate anything like the amount of food now that they can two months hence. Tying must be regularly attended to, for once any stems become bent the flowers are unsalable. The temperature with sun heat can run up to 65 or 68 degrees, but on cloudy days a maximum of 55 to 58 degrees is sufficient and at night about 50 degrees. On all good days see that they have a syringing. Give light fumigation about every 10 days, so as to keep down green fly.

Forcing Dahlias

Now is the time to start the roots. Be sure when planting that you give them plenty of head room, and 5 or 6 inches of good soil. Where there is a vacant bench I would suggest the forcing of a few dahlias as they will come in about right for Easter, giving abundance of bloom from that date on. They can be grown in any house where a temperature of from 55 to 60 degrees can be maintained. Plant them from 18 to 24 inches apart as they will need all of this room. Stake and disbud the lateral growths as they progress. Give them abundance of water at the roots when well started, not forgetting a syringing on all fine days, using a good pressure on the underside of their foliage so as to hold red spider in check. The single, cactus, and pompons yield well to forcing. Watch out for the green fly and on the first appearance fumigate for this pest.

Geraniums

Where a supply of stock plants is on hand in pots or benches (the latter gives the more abundant crop of cuttings) a fresh batch can be secured almost weekly, and now that they can be given a little steady bottom heat, few should damp. If the sand in the cutting bench is rather fine and water does not pass quickly through it, break up some charcoal, pass it through a $\frac{1}{8}$ -inch or even a $\frac{1}{4}$ -inch screen and mix it with the sand. This will make a splendid rooting medium. Bedding geraniums, as the weather becomes colder and proportion of dark days increases, must have more careful watering. It is better to keep them on the dry side through the coldest month. If kept constantly moist at the root, they make too rank a growth and there is also a greater probability of their damping off.

Oncidiums

Ventilation should be given with intelligence so as not to cause any draughts or sudden falling or rising of the temperature. It is well to give these orchids a good cleaning and sponging about once a month to keep down insect life. Give just enough water at the roots to keep them in plump state. They delight in a position where they can have an abundance of light during the winter months. Where it is possible suspend them as near to the glass as you can. As they go out of flower they should have a period of rest. Oncidiums can be grown either in pans or baskets. The best potting material is clean chopped fern fiber and live sphagnum moss in equal parts. This should be liberally interspersed with pieces of charcoal. Make the plants secure by fastening them firmly. A good winter temperature is from 50 to 55 degrees at night, with 10 to 15 degrees higher with sunshine. On all good days give them overhead syringing.

Propagating Carnations

The next two months are the best time of the year for this purpose, as we have conditions in the greenhouse absolutely under control. As the ventilation is limited, this eliminates the danger of wilting from drafts. Shading from the sun is easily managed, too. Propagating benches should be located so that we can keep off both sun and drafts without covering the cuttings too closely. Bear in mind that on the success of your propagating will largely depend your success next season. Trim the cuttings fairly well, and see that they are made firm in the sand. All the foregoing notes pertain to the preliminary arrangements, which I consider as important as the propagating proper. With the right facilities, there is no more pleasant or interesting work in the greenhouse than the propagating. Too often, growers select odd corners, where nothing else will thrive, on account of poor light and sometimes too much heat, for their propagating.

Reminders

Prepare all hardy shrubs and plants for forcing by a few weeks' sojourn in a cool house.

Achimenes started now, will do fine later in baskets. They are fine and useful pot plants.

Ivy-leaved geraniums struck in September may be topped now and the tops inserted as cuttings.

Resting conditions are best now wherever possible for all classes of palms, ferns, crotons, and other foliage plants. Bulbs fresh from the plunging material should not be exposed to full light at once but shaded lightly for a few days.

Carnations

We all know how to grow carnations. We have grown them and we can read the rules of the game in any year's notes of a live trade paper. But we all fall down somewhere during the season on a few benches or a house or two, so let's take a look at the houses today and see why we are cutting less than we should or why the quality is not as good as the best grown. It's Dec. 27, we will say, and the holiday cut can be estimated. Well, reds brought a record price and our cut of reds was not half what it should have been. Beacon has cut four to the square foot, so far, and should cut eight up to Jan. 1. What is the reason and how shall we do it right next season? Has Beacon gone back? No, it is as good as it ever was in some places and should be with us. Our benches of Beacon are full of strong, vigorous plants covered with buds and a grand crop coming on. No stem rot, few bursts but late for the best week of the season before May 30.

When did we go wrong? Were the cuttings taken early when they come well up on the stem or did you get caught shy last season and take thin bottom shoots late in the season? Perhaps they were allowed to starve in the flats, get yellow and hard. Don't put the fault all on the bad weather conditions in the field. And did you bench them in July or early August and keep them moving? Did you keep the weeds down and the top soil open and sweet? Did you actually examine the soil on the bottom of the bench to see if water was getting away down? Perhaps they needed an early mulch to protect the soil from drying out. And did you remember that Beacon has a heavy top and small root and so needs frequent waterings? Neglect at any one of these periods means small returns at the holidays.

Another house has a wonderful stand of Beacon blooms but 40, 60 or even 80 per cent. all splits. Beacon is a thoroughbred and of course sensitive. Rank feeding, irregular temperatures day or night, in fact any neglect will throw it off and on the other hand it will respond to good care more promptly and cheerfully than most sorts. Lots of new scarlets are being brought out. It will be interesting to see which sort wins in the 100 scarlet class at Indianapolis Jan. 31-Feb. 1.

Better look over the Beacon beds carefully *now* and if you see any strong cuttings well up above the first tie take them for next season's stock. They will sell at benching time if you do not need them.

Here are a couple of benches of Benora plants that look pretty light; they have hardly paid fifteen cents to the foot of bench space. Why were they not doubled? Short of plants? Well the 1600 plants would have given as many blooms on one bench as they are giving on two and you could have used the extra bench to good advantage. And there is a bench of Alice full of bloom and buds as it should be now, for Alice is one of the best sorts at this season, but the stems are rather weak even for Alice. Better lower the temperature and study the watering carefully. A feed of wood ashes may help.

Charles J. Strunk.

Carnation Problems

Kindly advise me why Matchless does not bloom nearly as freely as White Wonder?

Also, I remember a noted grower of carnations last year in reply to a query stated that bone meal was the cause of splitting the calyx in dull weather. Is this true in general? What do you consider the best method of feeding the plants?

Also, is the new crimson Arawana as large a bloom as Princess Dagmar?
J. S. New York

Matchless

Matchless, grand sort as it is in every other way, is by the majority of growers in this section of the country regarded as less floriferous than White Wonder. There are a number of growers who do Matchless to perfection—great, big blooms on excellent stems and with wonderful keeping qualities and fragrance, but I have found only a very few who would call Matchless a very free blooming variety and none who would class it with White Wonder in prolificacy. It takes Matchless a good deal longer to develop its flowers than it does White Wonder. As far as I know, Matchless will not in the course of a season reach the same average number of blooms that White Wonder will produce under similar conditions. I feel convinced that many growers will like and appreciate Matchless much better after one or two more experiments in growing it. The variety seems to require a considerably larger quantity of manure and water than what is generally given to it. It does not enjoy being on the dry side at any time; in fact some very successful growers have said that Matchless wants just double the quantity of feed and water usually given other sorts and their plants certainly showed that they got all they needed.

Letting Matchless grow in the field for too long a period will produce some monster plants, but these will take considerably more time to get established in the bench than young and smaller plants will require. The first crop of flowers will also come on shorter stems. It is well not to cut the stem too far down; rather leave enough of a stump to throw a number of new shoots. I should try Matchless again. It is too good a sort to be discarded.

Splitting

Bone meal may be a contributory cause of the splitting of the calyx in dull weather. I have not used bone meal for some years and although I have less trouble with splits every season, yet I would not positively say that the absence of bone meal had anything to do with this fact. Some sorts, like Beacon, Ward, Enchantress, White Perfection, etc. need very little provocation to make them split in dull weather, while sorts like Benora, Delight, Matchless, etc. at the same time, in the same house or bench and under same conditions as the first mentioned will produce nary a split.

Proper watering, airing and temperature day and night will reduce the percentage of split carnations. Sudden changes of temperature or too low a temperature at night will seldom fail to give us a beautiful crop

Polemonium

Distinguished by a bushy habit of growth, very attractive dark green pinnate foliage and normally blue flowers in terminal clusters or spikes, we know the garden varieties of polemonium as very desirable plants for the hardy flower border. In New England gardens the "Jacob's Ladders"—the popular name for polemoniums—can be frequently seen in full perfection occupying conspicuous situations. A richly manured rather light garden soil and, for the north, an open sunny exposure are essentials. South of New York I find partial shade an advantage. At least, I noticed the period of flowering is shorter in the full sun and during prolonged hot spells the foliage does not hold out so well. The latter is strikingly ornamental especially of our native Rocky Mountain species *Polemonium Richardsoni*, syn. *P. humile*, the subject of our illustration. The very handsome sky blue flowers appear during May and June, and this plant, scarcely exceeding 12 inches in height, proves ideal for small narrow beds requiring low growing materials. In Maine summer resorts I found this species also very effective for edging of large borders. With the only exception of *Polemonium confertum* which thrives best on dry rocky slopes, plantations should not be allowed to suffer by want of irrigation during their growing season. The creeping variety *Polemonium reptans*, syn. *grandiflorum*, does not grow except in moist situations and semi-shade.

Of the taller growing European species, *Polemonium*



POLEMONIUM RICHARDSONI

coeruleum, I see a variegated leaved variety listed by some firms abroad. All the Jacob's ladders mentioned in this note appear in white flowering forms with the specification var. *album* in catalogues.

Stock may be readily raised from seed, spring seedlings flowering the second year. Propagating by division of old plants is preferable when colors are desired separate.

Richard Rothe

Glenside, Pa.

of splits in the short and dull days. Overworking or overfeeding have the same effect. Feeding the plants often and not too much at one time has always given me best results, providing that all other details have been duly attended to. Overfeeding is probably the cause of most troubles we hear of in carnation growing, especially in the fall and winter. I have found dried blood a very good and economical fertilizer and am using it year after year. About 40 to 50 pounds to 500 square feet will do the plants good. I give it in four doses. First lot mixed in the soil before or at planting time, 10 to 12 pounds for 500 square feet; then the same amount in September or October, in January and in March. It is well to remember always that blood is a powerful article, but the above amounts are perfectly safe and give good results in my soil.

Sheep manure is a very good fertilizer and easy to apply, but the cost is too great in proportion to actual value. Plants that are not growing freely should not

receive too much of any sort of fertilizer; half doses at one time are often best.

Gustav Thommen

It Is Read Carefully

A gentleman of nation-wide prominence in commercial horticulture writes to the office of HORTICULTURE as follows:

"HORTICULTURE appeals to me, and in spite of rather numerous demands I endeavor to make a study of each succeeding issue. You may be interested to know that when I asked for an opinion on HORTICULTURE, in connection with other trade journals, from one who is in a position to know, who sees things squarely and tells them truly, the reply came in this wise, 'It is really and truly edited. Its articles are high class and authoritative. It is read carefully.'"

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached
by this paper is THE SORT OF PUBLI-
CITY THAT PAYS.

HORTICULTURE

VOL. XXIV

DECEMBER 30, 1916

NO. 27

PUBLISHED WEEKLY BY
HORTICULTURE PUBLISHING CO.
 147 Summer Street, Boston, Mass.

Telephone, Beach 292.

WM. J. STEWART, Editor and Manager

SUBSCRIPTION RATES:

One Year, in advance, \$1.00; To Foreign Countries, \$2.00; To Canada, \$1.50.

ADVERTISING RATES:

Per inch, 30 inches to page..... \$1.00
 Discounts on Contracts for consecutive insertions, as follows:
 One month (4 times), 5 per cent.; three months (13 times), 10 per cent.; six months (26 times), 20 per cent.; one year (52 times), 30 per cent.
 Page and half page space, special rates on application.

Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS

Page

COVER ILLUSTRATION—Perle B. Fulmer, President Ladies S. A. F.	
NOTES ON CULTURE OF FLORISTS' STOCK—Care of Sweet Peas—Forcing Dahlias—Geraniums—Oncidiums—Propagating Carnations—Reminders—John J. M. Farrell	869
CARNATIONS—Charles S. Strout.....	870
CARNATION PROBLEMS—Gustave Thommon.....	870
POLEMONIUM—Richard Rothe—Illustrated	871
IMPORTANT EXPERIMENTS WITH PEONIES—C. S. Harrison	873
CLUBS AND SOCIETIES—National Flower Show Guarantee Fund—Ohio State Horticultural Society—Meetings Next Week	874
NOTES ON CONIFERS	876
OBITUARY—Samuel Snyder—J. E. Hoopes—Chas. J. Blackert—L. D. Baldwin—Robertson Kirkpatrick, portrait	878
SEED TRADE—Record Prices—To Sell by Weight Instead of Measure—Effect of Export Demands on Seed Peas—The Seed Corn Situation—Bean Crop Failures—One Week's Imports—Notes.....	879 880
OF INTEREST TO RETAIL FLORISTS:	
New Flower Stores	882
Flowers by Telegraph	882
MAKING FALSE STATEMENTS—Elton J. Buckley...	884
NEWS ITEMS—Chicago, Boston	885
FLOWER MARKET REPORTS:	
Boston, Chicago, Cincinnati, New York.....	887
St. Louis, Philadelphia	889
MISCELLANEOUS:	
Fall Measure to Combat Rose Diseases.....	874
Visitors' Register	874
Remedies for Grass Diseases.....	875
Fruit-Vegetable Tomato	875
A New Use for Dahlias	875
The Fertilizer Situation in Connecticut.....	878
Business Troubles	882
Personal—New Corporations	885
The Bird Treaty	885
Proposed Federal Quarantine Against Trees and Plants	895
Greenhouses Building or Contemplated.....	894
Massachusetts Agricultural College Notes.....	894

To
 the ladies

Nobody will dispute the assertion that HORTICULTURE presents a very attractive front cover picture in this issue. The talented young lady who has been chosen by the feminine auxiliary of the Society of American Florists as their standard bearer for the year 1917 is exceedingly popular among the members of both organizations and it goes without saying that the success of the big convention in New York next summer

will be enhanced in no small degree through the participation of the Ladies' Society under her inspiring leadership. Congratulations, ladies, with HORTICULTURE's best wishes for a happy and successful 1917

The New Year knocks at the door as we pen these closing lines for 1916. The old year has been kinder to us than its predecessor—more so, perhaps, than we expected when

it was ushered in. We all recall how with subdued confidence, rather hopeful, yet discreetly moderate from the discipline of previous experience, we welcomed its coming and now so quickly is it gone, its story irrevocably written. Fortunately we may all now greet the incoming year with a measure of confident reliance which was not possible twelve months ago. The situation is decidedly more encouraging and we fully expect to see the season upon which we now enter well filled with progressive horticultural activity.

A commendable project

It is pleasing to note with how much spontaneous enthusiasm the local newspapers have come forward in approval of the plan proposed by the Florists' and Gardeners' Club of Andover, Mass., for the purpose of continuing their fall exhibitions. During a number of years past they have been putting up a really fine show each fall but the public patronage has not always sufficed to defray the cost and now the Club faces the alternative of financing these enterprises through some other means or abandoning them altogether and so the experiment of having a list of guarantors or associate members has been decided upon and will be tried out for the coming year. The florists and gardeners of Andover and vicinity richly deserve the assistance they ask for and the encouraging way in which the papers have espoused their cause seems a very good omen that they will succeed, and we cordially hope they may.

Your opportunity

After an exceptional fall trade and the largest money income on record for the Christmas season it goes without saying that the plant and flower trade people should now be in the mood to spend and to expand. Their customers have been making money and will put most of it into circulation at home—certainly not abroad. The florist, plantsman, nurseryman, seedsman and landscape gardener are all in line to get a substantial share of the distribution and indications all point to 1917 as destined to be the best buying year ever experienced in these particular lines. You who have something to sell to these people—what are you going to do to get your proportion of this business? There is no better medium for your use, considering the cost, than the advertising pages of HORTICULTURE. Buying power is what the advertiser is supposed to pay for but does not always get. Buying is the long suit in HORTICULTURE's circulation. No other paper in its class can outrank it in influence and effectiveness among the purchasing classes of the trade. Now is the right time to get busy, for the "big drive" will start early in January. HORTICULTURE is ready. Are you?

HAPPY NEW YEAR.

Important Experiments With Peonies

Our dry, hot summers are hard on peonies. These plants require plenty of water and a good drainage. Under favorable conditions they should double every two years, and in addition furnish planters for as large an area as they occupied. Very often in our hot, dry climate they took four years to double, and then often the roots would seem to lack vigor.

I determined to remedy this so I bought two lots near the heart of the city, giving me ground 100 x 120 feet. I planted in rows 18 inches apart and about seven inches apart in the row, following somewhat the intensive methods of France and Holland. I put a hydrant in the center which furnished abundance of water when needed. I had enriched the ground well with rotted manure and mulched with coarse manure. The land had been plowed deep and summer fallowed. The first year they made a fine growth and many of them had doubled.

The next year you never saw such a sight. The foliage was so rampant you could hardly tell where the rows were and there was such a glory of bloom, it was the wonder of the town and people came miles to see them. The summer was hot and dry and we poured an abundance of water on them. We found they had doubled, and often more than that, furnishing enough small roots to replant the ground.

We found quite a difference in multiplying. Umbelata Rosea proved the most prolific of all; sometimes we got three or four divisions from one. Marie Lemoine was the slowest of all to increase.

The Three to Five-eye Test

This is a very unsatisfactory one. There is a trick about it. By cutting your plant up small you develop buds—too many of them. They make too large a drain on the roots. There is another trick. Dig your plants early, bury in a warm place and if your roots have a good-cleavage like Queen Victoria or Edulis Superba you can pull off roots like fingers from your hand without a bud on them, and if well watered they will throw out

buds galore and you can take tiny roots with three to eight eyes if you are satisfied with that test, from roots without a bud when buried. I much prefer a good strong root regardless of the buds. If the root is vigorous it will give you buds enough. If you have too many buds you have small flowers. The experiment showed that you could raise both flowers and roots. The second year my lots were a carpet of bloom—great large flowers. But you must take them up every two years or they will crowd each other. By spading deep and pulverizing well, if you are careful not to replant in the same row, you can replant your ground once, but never twice. I would make but one change in this system of intensive cultivation—the rows should be two feet apart instead of 18 inches, then you can hoe and spade between. Mine were so thick I could not cultivate in the second year.

If you watch closely you will find about the last of August the earlier sorts have formed their buds, and commenced to throw out tiny roots for the next year. So your transplanting should be done early in September. If you have a dry fall your plants should be thoroughly watered so they can throw out an abundance of those tiny fall roots. I noticed in spots not well soaked the roots soon dried and withered in the ground, and that condition would prevent flowering in the spring. Close watching showed that plants plan a year ahead for fruits and flowers and we should help them carry out their plans.

I give these notes because people with only a small plot of ground can raise an immense amount. To test I ran in debt on my two lots and also ran in debt \$600 for peony roots. I raised more than enough to pay for both in two years, and now have as many as I started with.

C. S. Harris.

York, Nebr.

\$1.00

\$1.00

For Only One Dollar

Fifty-two Issues of the Best Horticultural Journal published on the American Continent.

If you are interested in Roses, Carnations, Florists' Flowers and Plants, Garden Perennials, Ornamental Shrubbery, Trees, Seeds, Societies, Exhibitions and the progress of American Horticulture generally,

Subscribe for "Horticulture."

\$1.00

\$1.00

CLUBS AND SOCIETIES

NATIONAL FLOWER SHOW GUARANTEE FUND.

The following open letter has been sent out by Secretary John Young.

"Dear Sir—At a meeting of the National Flower Show Committee of the Society of American Florists and Ornamental Horticulturists held on October 13-14 last, in St. Louis, the Chairman, Mr. George Asmus and the Secretary, Mr. John Young, were instructed to raise a guarantee fund of \$10,000 to cover the National Flower Show to be held in St. Louis, April 6-15, 1918.

"While the sum mentioned could, no doubt, be raised in and around St. Louis, it was the thought of the Committee that the fund should be national in character and represent every section of the country. The forthcoming show in St. Louis promises to be as successful as the previous National Flower Shows, and it goes without saying that it will result beneficially to the trade at large.

"Your kind interest in the project in the way of a contribution to the guarantee fund is cordially solicited, hence the inclosure herewith of a contribution blank. The guarantors for the last National Flower Show not only were reimbursed to the extent of their actual contributions, but also received a substantial share of the profits equal to 10 per cent of the entire amount subscribed.

"The Committee also would esteem donations of special prizes, the same to be offered under the names of the donors. If you should feel disposed to favor us with the offer of a special prize, kindly, if possible, select the subject for your award from the preliminary schedule, thus relieving our obligations to the prize fund to the extent of the value of your donation. The first preliminary schedule is now on the press."

OHIO STATE HORTICULTURAL SOCIETY.

The program for the fiftieth annual meeting of the Ohio State Horticultural Society will be held from January 30 to 31 during the sessions of Farmers' Week at the Ohio State University at Columbus. The Ohio Vegetable Growers' Association will be held on February 1 at the same place. Horticulturists and vegetable growers of national prominence will speak, in addition to a large number of members of the Ohio State University faculty. Among those to appear on the program will be; H. C. Thompson, specialist in vegetable gardening, U. S. Department of Agriculture; C. W. Waid, extension specialist in truck gardening, Michigan Agricultural College; Hon. Henry M. Dunlap, president, National Apple Growers Association; S. W. Fletcher, professor of horticulture,

Meetings Next Week

Monday, Jan. 1.

Bernardsville Horticultural Society, Horticultural Hall, Bernardsville, N. J.
Elberon Horticultural Society, Fire Hall, Elberon, N. J.
Houston Florists' Club, Chamber of Commerce Rooms, Houston, Tex.
Montreal Gardeners' and Florists' Club, Montreal, Canada.
New Bedford Horticultural Society, New Bedford, Mass.
Washington Florists' Club, Washington, D. C.

Tuesday, Jan. 2.

Florists' and Gardeners' Club of Holyoke and Northampton, Mass.
Lake Geneva Gardeners' and Foremen's Association, Horticultural Hall, Lake Geneva, Wis.
Los Angeles County Horticultural Society, Los Angeles, Cal.
Paterson Horticultural Society, Y. M. C. A. Bldg., Paterson, N. J.
Philadelphia Florists' Club, Horticultural Hall, Philadelphia, Pa.
Pittsburgh Florists' and Gardeners' Club, Fort Pitt Hotel, Pittsburgh, Pa.

Wednesday, Jan. 3.

Tuxedo Horticultural Society, Tuxedo Park, N. Y.

Thursday, Jan. 4.

Albany Florists' Club, Albany, N. Y.
Reading (Pa.) Florists' Association, Reading, Pa.
Southampton Horticultural Society, Odd Fellows Hall, Southampton, N. Y.

Friday, Jan. 5.

North Shore Horticultural Society, Manchester, Mass.
North Shore Horticultural Society, Lake Forest, Ill.
Pasadena Horticultural Society, Pasadena, Calif.
Yonkers Horticultural Society, Yonkers, N. Y.
People's Park Cottage Gardeners' Association, Paterson, N. J.

Saturday, Jan. 6.

Pacific Coast Horticultural Society, San Francisco, Calif.

Penn. State College; W. J. Green, J. W. Keil, and F. H. Ballou, horticulturists, Ohio Agricultural Experiment Station; Professors Wendell Paddock, L. M. Montgomery, J. H. Elwood, Vernon H. Davis, of the department of horticulture, and R. B. Cruickshank, extension specialist in horticulture, all of the Ohio State University; N. E. Shaw and E. J. Hoddy of the bureau of nursery and orchard inspection, Ohio State Board of Agriculture, and W. T. Mann, fruit grower, Geneva, Ohio.

Greenwich, Ct.—The Westchester & Fairfield Horticultural Society has elected the following officers for 1917: President, Wm. Whitton; vice-president, John Andrew; secretary, J. B. McArdle; corresponding secretary, Alex. Clarkson, all of Greenwich.

VISITORS' REGISTER.

Chicago—H. P. Webster, Independence, Ia.; R. H. Shumway, Rockford, Ill.; Alex. Mathers, of E. B. Clark Seed Co., Milford, Conn.; Theo. Cobb of D. M. Ferry & Co., Detroit, Mich.

FALL MEASURES TO COMBAT ROSE DISEASES.

Rose gardeners should take advantage of the fall season, says the U. S. Department of Agriculture bulletin, to make their plants as free as possible from disease by methods that cannot well be followed during the growing season. It is true in general that whatever the disease, the affected portions of the plants should be cut out in the fall and the shortened bushes sprayed. It is assumed, however, that spraying will not have been delayed until fall, but will have been carried on as a control measure at frequent intervals since spring. The diseased wood removed in the fall, together with the old leaves and debris under bushes, should be burned. In case of attacks by rusts, canker and leaf spots, the diseased wood or leaves should be removed and burned even during the growing season.

A wholly satisfactory method of control of rose canker has not been worked out. The early symptoms are the appearance of small reddish patches on the green parts, generally of 1-year-old growth. The disease is caused by a fungus classed as a wound parasite, that is, the spores gain entrance to the bush through certain mechanical injuries. These may be slight ones made upon the young branches by the thorns of the bush itself when one branch has been blown against another, or by insect punctures. Such infected areas may increase until the entire stem is surrounded and may extend for several inches along the branch. The only advice to be given is to cut away rigorously all diseased branches, and it may be necessary to cut back entire bushes if badly infected. Cover the exposed surfaces made by this cutting with paint or tar. This diseased material must be burned and the dormant bushes sprayed with strong Bordeaux mixture in both the autumn and early spring. At the first appearance of the disease, cut away and destroy all the branches showing infection. Then spray about every 10 days, first with Bordeaux mixture and later with ammoniacal copper carbonate, as spraying has no disfiguring effect upon the foliage, an appearance to be avoided when blossoming time is near. It is possible that by such careful attention the plants may outgrow the disease.

Pruning Climbing Roses

Special pruning methods must be employed for climbing roses. These methods are determined by more or less of a compromise between the desire, on the one hand, to force the growth of blossom-bearing, new wood by removing old wood, and, on the other hand, the desire to keep arbors and similar structures at least partially covered. One-half of the wood should be pruned from all the climbers, as from the other types of roses, at planting time. In the case of the

established plants the Wichuraiana and hardy climbing roses should be pruned just after blooming. At this time young shoots will have started from the roots. The growth of these shoots should be encouraged, as it is from them that most of the branches are produced that bear the following year's bloom. The best way is to remove all the old wood at this time, so that all the strength will go into the young shoots. Where the roses are trained over a trellis so high that one season's growth will not cover it, the method just described is not practicable. In such cases some of the old shoots should be cut off at the ground, and the others should be shortened from 3 to 6 feet, depending on the amount of growth the vine has been making each year. New shoots should be trained to take the place of those removed. It should be kept constantly in mind that the present year's growth bears next year's flowering branches and that a few vigorous branches are more desirable than many weak ones.

REMEDIES FOR GRASS DISEASES.

First and foremost the best treatment in all cases where grass is attacked by disease is to mow the turf as closely as possible and then to encourage a strong growth of grass by quick-acting manures, so as to enable the grass to grow away from the disease. In soft shady turf, and on those golf courses that lie on river flats where fungoid diseases spread very quickly, drastic treatment may be rendered necessary. In this case, spraying with sulphide of potassium (one ounce to ten gallons of water) may be done. Permanganate of potash diluted to a clear rose color also makes a useful preventive, and applications of flowers of sulphur applied when the grass is wet may be recommended for bad outbreaks of the red mould, etc. Excepting in cases where soil is sour, solutions of Kainit (one ounce per gallon) are useful in helping the grass to resist mild attacks of rust, etc. Dry lime is particularly useful in most cases, excepting that it is always well to avoid using lime as much as possible, as it encourages clover.

All dressings are best applied in the evening, as it is during the night that mildew spreads most rapidly. On soils liable to repeated attacks of various grass mildews, the excessive use of nitrogenous and crude acid manures should be avoided, and where it is necessary to hasten the growth without unduly forcing the grass, phosphatic dressings should be used. Bone meal must be blamed for causing a large amount of fungoid growth as well as encouraging clover; whilst leaf mould, especially that from ash and sycamore leaves, also sets up mildews, though the advantages of the leaf mould may possibly outweigh the disadvantages.

Most of the diseases are noticeable when they are in the form of white, gray or orange-colored moulds, this generally being the spore-bearing stage. It is then that precautions to prevent the disease from spreading should be taken. Rough grasses in hedgerows, reeds and rushes are nearly always infected with rust and

other diseases, so these should be kept cut down as much as possible. Cigarette ends and bits of rag lying in the turf are frequently the starting place of the white grass mildew. Leaving cut rye grass on the turf is also particularly bad, as a poisonous ferment is set up by the rye grass leaves that rots the finer grasses.

There is, however, a brighter side to this gloomy lecture, for parasitic fungi are not always injurious to the plants on which they live, and in some cases plants when infested with a particular parasite often grow more robust and vigorous than the non-infested plants. This condition, known as *symbiosis*, is noticeable in the case of rye grass. Even if grasses have their parasitic enemies, all plants are affected in the same manner, and, like "the fleas that have lesser fleas upon their backs to bite 'em," so these different mildews and fungi have other moulds that live upon them, which keeps the balance of Nature and prevents every blade of grass in the country from being destroyed. The *Yellow Rattle* is also punished for its greedy disposition of living on the grass roots by suffering in its turn from a parasitic fungus that causes gouty swellings on its roots.

—*The Golf Course.*

SPENCER SWEET PEAS

Reselected and true to name and color.

	oz.	$\frac{1}{4}$ lb.	1 lb.
Apple Blossom Spencer.	Rosy Pink	\$.25	\$.75 \$2.50
Asta Ohn Spencer.	Lavender .....	.25	.75 2.50
Black Knight Spencer.	Dark Bronze .....	.25	.75 2.50
Blanche Ferry Spencer.	Rose and White.....	.25	.75 2.50
Countess Spencer.	Clear-pink .....	.25	.75 2.50
Duplex Spencer.	Cream-pink .....	.40	1.25 4.50
Emily Eckford Spencer.	Purple .....	.35	1.00 3.00
Florence Morse Spencer.	Blush Margined Pink...	.25	.75 2.50
Florence Nightingale	Rich Lavender .....	.35	1.00 3.50
Frank Dolby.	Lavender .....	.25	.75 2.50
Helen Lewis.	Orange Pink .....	.25	.75 2.50
Hercules.	Pale Rosy Pink .....	.50	1.75 6.00
King Edward Spencer.	Rich Crimson .....	.25	.75 2.50
King White.	Pure White .....	.50	1.75 6.00
Mrs. Hugh Dickson.	Cream-pink .....	.25	.75 2.50
Mrs. Walter Wright Spencer.	Rosy Mauve .....	.25	.75 2.50
Nora Unwin.	Pure White .....	.25	.75 2.50
Primrose Spencer.	Cream .....	.25	.75 2.00
Queen Alexandra Spencer.	Crimson .....	.25	.75 2.50
White Spencer.	Pure White .....	.25	.75 2.50
Mixed.	All Colors..10 lbs.	\$9.00 .10	.25 1.00

5 per cent Discount Cash With Order

ARTHUR T. BODDINGTON CO., Inc.
128 Chambers Street, - - NEW YORK

A NEW USE FOR DAHLIAS

There is a chemical substance called "Inuline." This substance is necessary for the production of the serum used in anti-typhoid and anti-typhus inoculations. Before the war Germany supplied this. Since then chemists have discovered that this can be extracted from the root of the dahlia, and as only two per cent. is yielded from the root, great quantities of the root must be obtained to fulfil the demands of the government.—*Hort. Trade Jour. England.*

FRUIT-VEGETABLE TOMATO,

I saw a photographic illustration last week of a Fruit-Vegetable Tomato, which produces potatoes at the roots and a heavy crop of tomatoes on the vine. It is said to be the result of scientific plant-breeding, and a plant of far reaching economic importance. What sort of a reception it will get remains to be seen.

(Onlooker, in *Hort. Trade Jour.* (Engl.)

We think "Onlooker" should be given another guess. If he will look a little closer, he will no doubt find our old acquaintance—a tomato grafted on a potato.

In our notes on "Studies in Gardening" last week a minor typographical error crept in. In fourth line from the bottom read "text" in place of "test."

NOTES ON CONIFERS

THE PINETUM. At one time or another every conifer which had any chance of surviving has been tried in the Arnold Arboretum, and some useful information on the value of the different exotic and American species, with the exception of the new introductions from China, as ornamental trees in this climate has been obtained from the Arboretum experiments. Considering how generally unfavorable the New England climate is for trees of this class, the large number that succeed here is surprising, although it must be remembered that in this climate many conifers, especially Spruces and Firs, are often at their best when not more than forty or fifty years old and that as they grow older they gradually fail and lose their value as ornamental trees. This is true of the so-called Colorado Blue Spruce (*Picea pungens*), which is still one of the most popular conifers in the northern United States, where it is propagated and planted in immense numbers, in spite of the fact that it early loses its value as an ornamental tree. The Blue Spruce is very hardy, is easily raised and grows rapidly; young plants are of good shape and dense habit with their lower branches resting on the ground. There are two forms, one with dull green and the other with blue leaves, and the latter especially appeals to persons who are fond of unusual looking and sensational plants. For the nurseryman the Blue Spruce has everything to recommend it, easy germination of the seed, quick growth and unusual beauty in the young plants, and therefore a certainty of a quick sale. For the planter looking for something more important than a plant for a city garden or a small suburban yard this tree has proved a failure. It is not surprising, for *Picea pungens* growing in small groves near streams in the valleys of the Rocky Mountains of Colorado, long before it attains its full size is a thin, scrawny, miserable looking tree with a few short branches only near the top of the stem. This tree was discovered in 1862; seed was planted the following year in the Harvard Botanic Garden, and one of the plants raised at that time is still alive in the Arboretum on the southern slope of Bussey Hill where it is kept as a warning for planters who are deceived by the beauty of young plants of the Blue Spruce.

PICEA ENGELMANNII. This tree as it grows nearly up to the timber line of the central Rocky Mountains, where it once formed great forests, is one of the handsomest of the Spruces with its narrow spire-like crown, soft gray-green foliage and tall trunk covered with bright red scaly bark. It was also discovered in 1862 and what are probably the largest specimens in cultivation are in the Arboretum Pinetum. Until two or three years ago these were narrow, perfect pyramids with the lower branches resting on the ground; then the lower branches be-

gan to die gradually without apparent cause. This has continued, and the stems of some of the trees are now bare of branches for six or eight feet from the ground, and their beauty as specimen trees is ruined.

PICEA CANADENSIS. This, the White Spruce of British North America, is a very hardy, fast-growing tree here, and is one of the handsomest of the Spruces which can be grown in this region; but the climate of eastern Massachusetts is evidently too warm for it and after it is thirty or forty years old it becomes thin and unsightly.

PICEA RUBRA. This is the Appalachian timber Spruce and retains here its beauty longer than the White Spruce, for it is a native of Massachusetts and ranges southward along the mountains to the high Carolina peaks. It is a handsome tree with dark green leaves, but it probably grows more slowly than any other large coniferous tree, and it is not easy to establish. For these reasons it will probably never be a favorite tree with nurserymen.

PICEA OMORICA and P. ORIENTALIS. These are handsome and hardy trees, the former a native of the Balkan peninsula, and the latter of the Caucasus. No weakness has yet been found here in these trees except that they too often lose their leaders from the attacks of the borer which so often destroys the leaders of the White Pine.

PICEA GLEHNII. What the future may have in store for this tree here, which is a native of northern Japan and Saghalien, no one can predict as it has been in cultivation in the Arboretum for only twenty-two years. The trees now grow rapidly, are perfectly hardy and show no signs of failure of any sort. The best specimens here are now about eighteen feet high.

PICEA JEZOENSIS. This is the most widely distributed of the species of eastern Asia; ranging as it does from the Amoor region to Manchuria, Korea, and to northern and central Japan. This is the only Spruce in all that region with flat leaves like those of *P. omorika* and *P. sitchensis* of our northwest coast. It has been sometimes called *Picea ajanensis*, *P. microsperma* and *P. hondoensis*. In Great Britain, where it is usually incorrectly called *Picea Alcockiana*, it grows remarkably well and has been recommended as a timber tree for forest planting. In a collection of exotic trees made in 1870 by Dr. George R. Hall in Warren, Rhode Island, there is a specimen of this tree from sixty to seventy feet high with a trunk forty-six and a half inches in diameter and branches spreading on the ground. In this Arboretum and in the Hunnewell Pinetum at Wellesley this tree has grown badly, losing many of its branches and soon becoming unsightly.

PICEA BICOLOR. This is one of the rarest of the Japanese conifers, and

as it grows in the Hunnewell Pinetum it is now the handsomest of all the Spruce trees which can be grown in this climate. Mr. Hunnewell's trees are now about forty feet high with the lower branches resting on the ground and covering a space from thirty-five to forty feet across and with perfectly straight stems. This beautiful tree is probably better known by its incorrect name of *Picea Alcockiana*. It is one of the rarest of the Japanese conifers in cultivation and it is to be regretted there are no good specimens now in this Arboretum.

PICEA ABIES. This unfortunately is the correct name for the so-called Norway Spruce of Europe which has generally been known as *Picea excelsa*. Fifty or sixty years ago this tree was very generally planted in southern New England where it has not proved a success as an ornamental tree as it begins to fail at the top when about thirty years old and then soon becomes ragged and unsightly. In some parts of Virginia and in the Middle States this is a better tree than it is in Massachusetts. In the National Cemetery at Gettysburg in Pennsylvania there are magnificent specimens of the Norway Spruce in as perfect health and beauty as can be found anywhere.

FIRS. The number of Fir trees that can be successfully grown in this climate for many years is not large. One of the handsomest here is the White Fir of western North America, *Abies concolor*. There are fine specimens of this beautiful tree in the Arboretum raised here from seed planted in 1874 and now about sixty feet high, with the lower branches resting on the ground, and solid masses of gray-green foliage. As handsome and as promising in this climate is the Japanese *Abies homolepis*, or, as it has been more often called, *Abies brachyphylla*. This is a large tree on the mountains of central Japan with dark green leaves silvery white on the lower surface and violet-purple cones. It has proved perfectly hardy in this climate. The largest specimen in the Hunnewell Pinetum is now fifty-five feet high with branches sweeping the ground. The Arboretum trees are smaller but already produce their handsome cones. A variety of this tree, (var. *umbellata*) with green cones and rather lighter-colored leaves is established in the Arboretum where it has grown rapidly, the largest specimen raised from seeds planted in 1891 being thirty-five feet high. *Abies cilicica* from Asia Minor and *A. cephalonica* from southeastern Europe are hardy trees in the Arboretum and now promise to grow here to a large size. *Abies Veitchii* from Japan is still a handsome tree in the Arboretum but it is doubtful if it carries its beauty to old age. *A. amabilis* and *A. grandis* from northeastern North America are handsome young trees here, and *A. nobilis* from the same region just keeps alive here as a nearly prostrate shrub, although in Methuen, in the extreme northern part of this state, there are handsome and healthy specimens of this Fir nearly thirty feet high.

PINES. Among exotic Pines the three Japanese species, *Pinus parviflora*, *P. Thunbergii* and *P. densiflora*,

(Continued from page 823)

Michell's New Crop Flower Seeds



ASTER		Tr. Pkt.	Oz.	PETUNIA		Tr. Pkt.	Oz.
Queen of the Market, Blush Pink	.....	\$ .20	\$1.00	California Giants	.....	\$ .50	
" " " " " " " " " " " "	.....	.20	1.00	Dwarf Inimitable	.....	.50	\$1.25
" " " " " " " " " " " "	.....	.20	1.00	Grandiflora Fringed	.....	.50	
" " " " " " " " " " " "	.....	.20	1.00	Monstrosus (Michell's)	.....	1.00	
" " " " " " " " " " " "	.....	.20	1.00	Rosy Morn	.....	.50	1.25
" " " " " " " " " " " "	.....	.20	1.00	Ruffled Giants	.....	.50	
" " " " " " " " " " " "	.....	.20	1.00	Snowball	.....	.50	1.50
Early Wonder, Pink	.....	.10	2.00	Double Fringed, White	.....	1.00	
" " " " " " " " " " " "	.....	.10	2.00	" " " " " " " " " " " "	.....	1.50	
BEGONIA				PHLOX DRUMMONDII			
Erfordia, Pink	.....	.30		Dwarf Cecily, Mixed	.....	.50	1.75
Vernon, Red	.....	.25	2.50	" " " " " " " " " " " "	.....	.40	2.00
Gracilis, Luminosa	.....	.40		" " " " " " " " " " " "	.....	.40	2.00
" " " " " " " " " " " "	.....	.50		" " " " " " " " " " " "	.....	.40	2.00
" " " " " " " " " " " "	.....	.30		" " " " " " " " " " " "	.....	.40	2.00
" " " " " " " " " " " "	.....	.30		" " " " " " " " " " " "	.....	.40	1.25
CENTAUREA				PYRETHRUM			
Candidissima (1000 seed)	.....	.30	2.00	Aureum (Golden Feather)	.....	.40	.25
Gymnocarpa (1000 seed)	.....	.15	.50	SALVIA			
COBAEA SCANDENS				Ball of Fire	.....	.50	2.50
Purple	.....	.40	.40	Bonfire	.....	.40	2.50
White	.....	.25	.75	Scarlet Flow (Michell's)	.....	.50	3.00
DRACAENA				King of Carpets	.....	.50	2.50
Australis	.....	.15	.50	Splendens	.....	.25	1.25
Indivisa	.....	.10	.30	Zurich	.....	.50	4.00
IPOMAEA				THUNBERGIA—Mixed			
Noctiflora (Moonflower) (lb. \$4.50)	.....	.15	.50		.....	.15	.60
Heavenly Blue	.....	.15	.50	VERBENA			
LOBELIA				Mammoth Fancy Blue	.....	.30	1.25
Crystal Palace	.....			" " " " " " " " " " " "	.....	.30	1.25
Compacta	.....	.30	1.25	" " " " " " " " " " " "	.....	.30	1.25
Crystal Palace	.....			" " " " " " " " " " " "	.....	.30	1.25
Speciosa	.....	.15	.50	" " " " " " " " " " " "	.....	.30	1.25
Emperor William	.....	.25	1.25	" " " " " " " " " " " "	.....	.30	1.00
Sapphire	.....	.40		" " " " " " " " " " " "	.....	.25	.75
				VINCA			
				Alba	.....	.15	.60
				Alba Pura	.....	.15	.60
				Rosea	.....	.15	.60
				Mixed	.....	.15	.50

ASPARAGUS PLUMOSUS NANUS
Northern Greenhouse Grown Seed
1000 Seeds....\$ 3.50 10,000 Seeds....\$30.00
5000 Seeds.... 15.50 25,000 Seeds.... 72.50

ASPARAGUS HATCHERI
100 Seeds.... 1.00 500 Seeds.... 3.00
1000 Seeds....\$5.00

ASPARAGUS SPRENGERII
1000 Seeds.... .75 10,000 Seeds.... 5.50
5000 Seeds.... 3.00 25,000 Seeds.... 12.50

Special Prices on Larger Quantities

FOR COMPLETE LIST OF SEEDS, BULBS, PLANTS AND FLORISTS' SUPPLIES
SEE OUR NEW WHOLESALE CATALOG. SEND FOR
IT IF YOU DO NOT RECEIVE A COPY

HENRY F. MICHELL CO., - 518 Market Street, Phila.

CARNATIONS

Field Grown

ENCHANTRESS SUPREME, EUREKA
WHITE WONDER, PINK DELIGHT.

\$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL,
MATCHLESS.

\$7.00 per 100; \$55.00 per 1000.

LADY NORTHCLIFF, PINK WINSOR,
WHITE WINSOR.

\$6.00 per 100; \$50.00 per 1000.

WOOD BROS., FISHKILL,
N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

CHARLES H. TOTTY
CHRYSANTHEMUMS
MADISON, N. J.

A. N. Pierson, Inc.
CROMWELL, CONN.

Bedding Plants and Roses

JULIUS ROEHRS CO.

HEADQUARTERS FOR

**Choice Flowering and Foliage
Plant Stock**

FOR IMMEDIATE OR FUTURE DELIVERY

Conservatories stocked

Rare Orchids a Specialty

Send for Catalog

RUTHERFORD, - - NEW JERSEY

WHITMANII IMPROVED—\$5 per 100, \$40
per 1000.
WHITMANII COMPACTA—\$5 per 100, \$40
per 1000.
ROOSEVELTS—\$5 per 100, \$40 per 1000.
BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

**CHRYSANTHEMUM
ALEX. GUTTMAN**

The best Early Lavender-Pink in the
Market. Blooms have been selling for \$6.00
per dozen since middle of September. Stock
Plants, 75c. each, \$7.50 per doz.

GUTTMAN & RAYNOR, INC.

Wholesale Florists
101 West 28th St., New York, or FRANK
DINDA, Farmingdale, N. Y.

ORCHIDS

We grow and sell nothing but ORCHIDS.
If you are in the market for this class of
plants we respectfully solicit your inquiries
and orders. Special lists on application.

LAGER & HURRELL, Summit, N. J.

ORCHIDS

Francisco Delgado Q.
Orchid Collector

Solicits orders for shipments of Orchids,
Prices quoted upon application.

BOGOTA (Chapinero) COLOMBIA

New Carnation

ALBERT ROPER

This Splendid Production of the Late Albert Roper, previously known as No. 360, will be disseminated the coming winter. Color cerise; flower medium size: a very free rooter: long stiff stem; healthy good bloomer and free from splitting: "A real bread-and-butter Carnation," says William Nicholson.

Winner of the Silver Medal at the Boston Spring Show, 1916

ROOTED CUTTINGS \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rate

Orders taken now will be filled in rotation

ALBERT ROPER ESTATE,

**TEWKSBURY
MASS.**

MARK ROPER, Administrator

Obituary

Samuel Snyder.

Samuel Snyder, retail florist. Second avenue and 59th street, New York City, died at the Flower Hospital on December 17, aged forty years. He is survived by his widow.

L. D. Baldwin.

Leslie D. Baldwin, florist, Foxboro, Mass., died on December 13, aged thirty five years. His parents and one sister survive him. The funeral was brightened by many floral tokens of esteem from friends in the trade and others.

C. J. Blackert.

Chas. J. Blackert, for many years a prominent florist of St. Louis, Mo., died on December 9, aged 72 years. He was a native of Sweden, coming to this country 45 years ago. His son, Chas. J. Blackert, Jr., will continue the business.

J. E. Hoopes.

Joseph E. Hoopes senior member of the firm of J. E. Hoopes & Co., seedsmen, Muscatine, Ia., died on December 15, after a long and painful illness, aged 63 years. He was a man of large activities in the business and civic life of Muscatine. He leaves a widow.

Robertson Kirkpatrick.

Robertson Kirkpatrick, landscape gardener, died on Wednesday, December 20, at a local hospital in Nashua, N. H., aged 55 years. The cause of his death is stated to have been rupture of the spleen. For the past month he had not been feeling in his usual good health and Tuesday night there was such a turn for the worse that he was taken to the hospital. His death came as a great shock to the members of his family and the community.

Mr. Kirkpatrick was born at Rutherglen (near Glasgow), Scotland, Nov. 4, 1861. He served his apprenticeship at Gallowflat (Rutherglen), the estate of F. R. Reed, remaining there five years in all. After two years on private estates in Glasgow and St. Andrews, Fifeshire, he came to the United States in 1882. He was in the employ of Mr. Bowles, editor of the Springfield Republican and

then went to Nashua where he was with C. W. Hoitt two and one-half years and then with George E. Buxton, after which he went to Newburyport, Mass., in charge of T. W. Goodwin's greenhouses returning to Mr. Buxton's two years later. He final-



ROBERTSON KIRKPATRICK

ly went into landscape and nursery business on Ferry Road, Nashua, where his nursery is located. He leaves a widow, one son, Wm. R. Kirkpatrick, superintendent of parks in Nashua, a granddaughter, three brothers and one sister in Scotland, and one brother in Montreal, Canada.

THE FERTILIZER SITUATION IN CONNECTICUT.

THE RAW MATERIALS MARKET.—A very unsettled condition prevails in the wholesale market on "chemicals." Manufacturers are buying only for their immediate needs. In small lots, such materials as Nitrate of Soda, Sulphate of Ammonia, Tankage, Blood, Cyanamid, Cottonseed Meal, Acid Phosphate and Bone are all high. Acid Phosphate seems to be slightly lower than last year but Cottonseed is 30 per cent higher. Nitrogen in Nitrate of Soda and Sulphate of Ammonia is about 23 cents per lb. and 22 cents in

9-9 Tankage. In mixed goods Nitrogen is about 23 cents. These values are based on cash quotations, carload lots. No firm will hold quotations open on unmixed goods, indicating the instability of prices. Those in close touch with conditions seem to feel that plant food can be purchased cheaper in mixed goods than in unmixed. This is probably true when the cost of mixing is considered. The safest procedure would be to get quotations from several sources on both mixed and unmixed goods and make the comparisons.

If present conditions continue, we may be able eventually to supply our needs. Several firms are offering as high as 4 per cent Potash goods. Some offered this goods earlier but are sold out now, the Maine growers having contracted for the entire supply.

Our results so far on corn indicate that potash pays at normal prices. This, however, is on the Gloucester Sandy Loam on the Station Farm. On heavier soils the results might differ. We very seriously question the advisability of paying \$5 a unit for potash to be used on the common field crops. Where large applications of potash have been made in previous years, as on tobacco land, it does not seem wise to use much if any potash this year.

LIME—Last year it was suggested that stress be laid on the use of lime, the price at that time being normal. This year lime has advanced, and notice is given of a further increase on March 1. In spite of this fact, we believe that lime will in the long run, repay the investment, although every means should be used to secure good quotations.

MANURE—We have this year another opportunity to hammer on this point. Too much stress cannot be laid on the proper care and use of manure. An Extension bulletin on this subject is now in press.

TRANSPORTATION—This would seem to be the most serious problem we are facing. The fertilizer manufacturers are at present working to secure preference for fertilizers over some other classes of freight. Some pressure might be brought to bear if farmers' organizations were to take up the matter with the railroads. The wise man will order early. It is already late.

—Agronomy Dept., Conn. Agri. Col.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

Record Prices.

The seed situation does not ease up as the season advances, excepting possibly in the matter of seed corn. Predictions of record high prices made in these columns some weeks ago have already been realized. For instance: Alaska peas have sold as high as \$12.50 per 100 lbs. and there are apparently reliable reports that they have sold as high as \$13.50 per 100. This seems to be a record price for this variety, and it is questionable whether they ever sold at so high a figure in large quantities. The green sweet wrinkled sorts which have not been in demand excepting by canners have suddenly become popular for export, and have recently been sold at \$9.50 per 100 lbs.

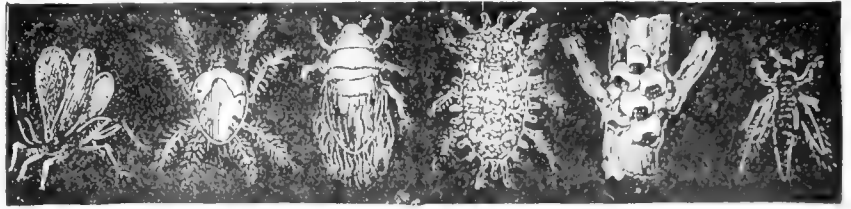
To Sell by Weight Instead of Measure.

Right here it may be well to call attention to a plan which while not new in theory is practically new in practice, that is, the selling of peas, beans and corn by weight instead of by measured bushel. There is no question whatever about the plan being far preferable to the old way of selling by the bushel. The latter plan was prolific of complaints because of shortages, and this cannot occur where the goods are sold by weight, excepting through some one's carelessness, and any shortage can be easily made good. One of the prime causes which has led the seedsmen, and particularly

Hammond's Thrip Juice No. 2

REGISTERED

A Contact Insecticide, Useful and Reliable, Used for 30 Years in Greenhouses, and on Plants, Grape Vines, Trees and Shrubs



Some common Sucking Insects, magnified.

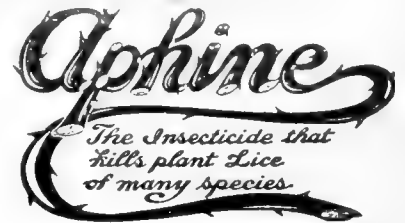
HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.

the seed growers, to decide to sell their products by weight instead of measure is the conflicting state laws fixing the weight of a bushel. It has been the custom of the pea and bean growers from the earliest days of the seed business to consider 60 pounds a bushel of the round smooth peas, and 56 of the sweet wrinkled varieties. These weights were fixed after long experience and were based on a just quantity to the bushel, but our ignorant and demagogic law-makers with the idea of currying favor with the farmers have made 60 pounds arbitrarily a bushel without regard to variety. When peas are worth \$10.00 and \$12.00 a bushel it is easy to see what loss the seed grower would sustain by being obliged to give away four pounds to every bushel. It is to avoid complaints and endless discussion that the seed growers are making an effort to introduce the cental system. One can appreciate that at the beginning this change is liable to be a little confusing, but we shall all speedily become accustomed to it and learn to think in pounds as readily as we do now in bushels.

Effect of Export Demand on Seed Peas

What has really made the price of dried peas this year has been the export demand. This has been very heavy up to a very recent date, and just at present trade in this line is very quiet, but it is expected to revive and become active again within the next few weeks. This foreign demand has had much to do in fixing the prices of future peas, because the growers realize that they will have at least one year more of very active demand from Europe for dried peas for culinary purposes, and should the war in Europe continue over another year it will mean that the demand will continue, just so long as the war lasts and for practically one year after its close. To those who are buyers of peas in quantities, whether canners or seedsmen, it would seem to be an act of wisdom to cover one's future requirements quite thoroughly while the present situation exists, as any price named now by the growers is liable to look low a year hence.

It is exceedingly fortunate for the seed growers that the foreign demand has been so strong, while they had a large surplus of peas to sell. The canners are the largest consumers of peas for seed purposes, but they are diffi-



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.
Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

1/2 Pint, 25c.; Pint, 40c.; Quart, 75c.; 1/2 Gallon, \$1.25; Gallon, \$2; 5 Gallon Can, \$9; 10 Gallon Can, \$17.50. Directions on package.

LEMON OIL COMPANY

Dept. S, 428 W. Lexington St., Baltimore, Md.



NIKOTEEN

For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer For It.

NIKOTINE MFG. CO.
ST. LOUIS

CLAY'S

FERTILIZER

Endorsed by all
Growers

112 lb. \$7.00

WM. ELLIOTT & SONS
42 Vesey St., New York



IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON

cult to deal with; almost any price quoted they regard as too high, and the laborious task of educating them up to appreciate values must be gone through with times without number. When seed peas were quoted the canner at \$3.00 a bushel, which was practically cost, they were still too high, and he was combing the country to dig up some nondescript individual who would undertake to grow the peas for a little less money. The canners did not seem to realize that what they saved in dollars they lost in quality, but without any conscience placed the high-class seed grower with the nondescript and irresponsible one. This is a familiar plan of the canners and they have very nearly exhausted the patience of many of the seed growers; still there are among them a number of fair, honorable men who do not expect to buy all wool at the price of shoddy and are willing to pay for all wool.

Notwithstanding the very high prices that have been ruling on seed peas, and the apparent scarcity a few weeks ago, they are now coming to light from unexpected quarters, and being offered at slightly lower prices than those ruling a few weeks back. This simply means that the top price has been reached, and that from now on there is likely to be more or less decline.

The Seed Corn Situation.

The same situation exists with reference to seed corn, only in the case of the latter prices have been more exaggerated. We have believed all along that while seed corn was genuinely scarce and worth a pretty high figure, a point has been stretched, and prices named as the result of more or less of a panic caused by fear that it would be next to impossible to secure the desired quantity of seed corn, excepting at extravagantly high prices. We expect to see a considerable drop in most standard varieties of corn. Such items as Golden Bantam are genuinely scarce and quite possibly the prices quoted on this item more nearly represent values than anything else in the corn line.

When we consider that as early as the middle of October seed corn was quoted at from \$8.00 to \$10.00 per bushel, with a fair cargo in prospect, it is difficult to account for the fear which seized so many canners that they were ready to pay for once almost any price named if they could only secure the seed corn they wanted. We are reliably informed that Stowell's Evergreen and Early Evergreen have sold at \$12.00 to \$14.00 per bushel, while Country Gentleman and Crosby's have sold as high as \$16.00 to \$18.00 per bushel. That there should be a drop from such prices is what might be expected.

Bean Crop Failures.

Since we last discussed crop news there has been a marked change in the situation on seed beans. Owing largely to unfavorable weather the crop has been reduced almost to the point it reached last year. Six weeks ago there were only a comparatively small number of varieties listed as crop failures, and deliveries from 25 to 75 per cent. were expected on most

SCARLET SAGE

We have harvested this Autumn a satisfactory crop of

SCARLET SAGE SEED

And offer of our own growing on Bloomsdale Farms
BONFIRE or CLARA BEDMAN.....at \$18.00 per pound

This Sage is fine strain and worth the price we ask. Terms:—Net 60 days,
2½ per cent. off 10, f. o. b. Bristol, Pa.

D. Landreth Seed Company BRISTOL, PA.

Bloomsdale Seed Farms, Established 1784.

“Seeds with a Lineage” All Varieties
Thoroughly tested at our trial grounds, Raynes
Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of
Commerce Bldg., Boston, Mass.

standard sorts. Now we are informed that a large number of varieties have been called failures, while deliveries on other varieties have been reduced from 25 to 50 per cent. In so far as values go, beans are almost if not quite as scarce as last season and the prospects for the future are far from encouraging. Many growers lost a part and in a few instances the whole of their seed stocks of certain varieties. Farmers who have experienced a succession of crop failures growing beans are not at all eager to try it again and the growers are finding it a strenuous uphill fight to secure their required acreage. It is said that prices for another year will be very high, averaging in some instances \$2.00 per bushel over last year. While the seed grower is powerless against these advances the seedsmen and canners seem to think that they are being plundered and several have stated that they would not pay such prices but would take chances on buying their requirements after the crop is made. In this same connection it may be well to say that there has been a sharp advance in the prices of future peas, but the bean situation is what is claiming most attention.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending Dec. 15, were recorded as follows:

Bulbs—France, \$319; Netherlands, \$647; England, \$56; Japan, \$5,172.

Plants—France, \$669; Netherlands, \$2,334; England, \$311; Scotland, \$277; Colombia, \$1,385; Japan, \$25.

Red clover seed—Russia, \$690; Chile, \$4,311.

Grass seed—Denmark, \$18,800; Ireland, \$5,879; Canada, \$457; Brazil, \$33.

Other seeds—France, \$1,670; Italy, \$8; Netherlands, \$1,356; England, \$1,315; British East India, \$772; Hongkong, \$185; Japan, \$20; Austria, \$4.

Fertilizers—England, \$2,239.

Notes.

Prices for timothy seed on Chicago Board of Trade, December 20 were \$4.00 to \$5.75.

M. Van Waveren & Sons have removed their New York office to 26 Cortlandt street.

About five thousand acres are now devoted to the production of sugar beet seed in this country.

J. Bolgiano & Son of Baltimore have announced their intention of sharing the profits with those employees who have been associated with them for a number of years, as a recognition of their loyalty and industry. This plan was put into operation this week, when substantial checks were handed to all who were entitled to them for the year ending September 1st, 1916, which was one of the best of the 99 years of this firm's existence. At the same time it was decided to increase the salaries of those employees entitled to such increase through merit and devotion to duty.

Plant Propagation, Greenhouse and Nursery Practice

By M. G. KAINS

We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensive and practical, and it should meet with a ready sale among plantmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagating by buds, layering, cuttings, grafting, etc., fruit tree stocks, clones, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and half-tone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of HORTICULTURE at publisher's price, \$1.50.

Horticulture Publishing Co.

117 SUMMER ST., BOSTON, MASS.

Dwarf Gladiolus

	Per 1000
Cardinalis Blushing Bride.....	\$5.00
" Peach Blossom.....	6.00
" Crimson Queen.....	4.50
" Queen Wilhelmina.....	5.00
" Mixed.....	3.00
Colvillei Rubra.....	4.00
" Alba "The Bride".....	5.00
" Rosea.....	4.50
Ramosus Ne Plus Ultra.....	6.00

Lily of the Valley Pips

(New Crop)

BERLIN OR HAMBURG

Cases of 1000 Pips.....	\$17.00 each
" 500 ".....	9.00 "

Lilium Longiflorum Giganteum

(Black Stem)

7 to 9 in.....	\$30.00 per 1000
All 8 in. selected.....	35.00 "

J. M. THORBURN & CO.

 53 Barclay Street
NEW YORK CITY

KELWAY & SON

SPECIALIZE IN

SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or
Forward

Only Address, LANGPORT, Eng

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragons on
the market. Per pkt., \$1.00; 6 pkts. for \$5.00.
S. S. SKIDELSKY & CO.

PHILADELPHIA, PA.

My new Price List of

WINTER-ORCHID-FLOWERING SWEET
PEA SEEDHas been mailed. If you have not received
a copy, send me postal. Part of new crop
will be ready early in July.
ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

SOW EARLY

SWEET PEAS

	Lb.	¼ Lb.	Oz.
White Spencer .	\$3.00	\$1.00	\$.30
Countess of Spencer	2.75	.75	.20
Maud Holmes . .	2.75	.75	.25
Asta Ohn Spencer .	3.00	.85	.25
Clara Curtis . .	2.50	.75	.20
Hercules	1.25		.40

VERBENAS

Farquhar's Giant Blue
Farquhar's Giant White
Farquhar's Giant Scarlet
Farquhar's Mammoth Hybrid
Mixed
All the above, ¼ oz. \$0.40
½ oz. \$0.25

MIGNONETTE

 Farquhar's Universal, 1-4 oz.,
\$3.75; 1-8 oz., \$2.00; 1-16
oz., \$1.00.

VINCAS

 Bright Rose, Pure White
White with Rose Eye
All the above, oz. \$1.00; ¼ oz. \$0.30

Wholesale Catalogue Mailed on Application
R. & J. FARQUHAR & CO. BOSTON
MA SS.

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

ROMAN J. IRWIN

108 West 28th St., NEW YORK

SPECIAL OFFER

LILIUM FORMOSUM

8/11, 225 to a case.....	\$80.00 per 1000
9/10, 200 to a case.....	5.00 per 1000
11/13, 100 to a case.....	15.00 per case
LILIUM FORMOSUM—Black Stem	
8/10, 200 to a case.....	\$80.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
11/13, 100 to a case.....	18.00 per case
See Classified List for Seasonable Plants, Rooted Cuttings, Seeds and Bulbs.	
Write for Complete Stock Circular.	
SATISFACTION GUARANTEED.	

See Classified List for Seasonable Plants,

Rooted Cuttings, Seeds and Bulbs.

Write for Complete Stock Circular.

SATISFACTION GUARANTEED.

THOMAS J. GREY COMPANY

SEEDS, BULBS AND IMPLEMENTS
WHOLESALE AND RETAIL.

Reselected Strains in Seeds.

Improved styles in Implements.

Catalogue upon application.

29 So. Market Street

BOSTON, MASS

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

SEEDS, BULBS, PLANTS

AND

Florists' Necessities

AMERICAN BULB CO.

172 N. Wabash Ave., Chicago, Ill.

LILIUM FORMOSUM

LILIUM HARRISII

LILIUM GIGANTEUM

Prices on Application. Write for 1916
Bulb Catalog.
JOSEPH BRECK & SONS' CORP.

47-54 North Market St., Boston, Mass.

W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries

166 W. 23rd St., NEW YORK

GARDEN SEED

BEET, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
be quoted you upon application to
S. D. WOODRUFF & SONS

82 Dey St., NEW YORK and ORANGE, CONN.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Carrying Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

Penn
The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.

BOSTON

FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

MAX SCHLING

22 West 59th St.
Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address Dardsflor.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York

Telephone 1548-1556 Columbus

Of Interest to Retail Florists

NEW FLOWER STORES.

Midland, O.—Salineville Floral Co.

Columbia City, Ind.—A. T. Baker,
Adair block.

Glens Falls, N. Y.—Samuel Hagen,
11 Court St.

Chicago, Ill.—Frank Scibior, 2003
Armitage Ave.

Newtonville, Mass.—H. W. Cotton,
Washington St.

Jackson, Miss.—Aberdeen Floral Co.,
113 Capital Ave.

Bloomington, Ill.—Frank A. Harder
1408 W. Locust St.

Houston, Tex.—Walter Ritzer, Main
St., Scanlan Building.

Lancaster, Pa.—The Rosery, suc-
ceeding The Rose Shop.

EASTER DATES

for the next four years are
as follows:

1917 April 8

1918 April 20

1919 March 31

1920 April 3

BUSINESS TROUBLES.

New Orleans, La.—John W. Cassidy, florist, 237 South Richardson Ave., voluntary petition in bankruptcy; assets, \$3,336, liabilities, \$4,031.40.

New York, N. Y.—Harry A. Bunyard Co., Inc., seeds, 40 West 28th St., has been petitioned into bankruptcy by John F. Croom & Co., Magnolia, N. C., \$366; A. T. De La Mare Printing & Publishing Co., New York, \$649; Wm. F. Kasting Co., Buffalo, N. Y., \$49.

The St. Louis Retail Florists' Association held a well-attended meeting on December 11. A gratifying increase in membership is rewarding the activity of President Charlie Young and F. C. Weber, Jr.

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. BOSTON

Telephone Main 34.

**JOHN BREITMEYER'S
SONS**

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good
sections of Ohio, Indiana and Canada.
Members Florists' Telegraph Delivery
Association.



GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE

National Capital

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

DANKER
ALBANY, N. Y.

ALBANY

TROY

SCHENECTADY

RENSSELAER

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

A. T. BUNYARD
NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction

MEMBER F. T. D. A.

CHICAGOSend Your Orders to
WILLIAM J.**SMYTH**Member Florists' Telegraph
Delivery Association**Michigan Ave. at 31st Street**Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Points

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1896 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST

THOMAS ROLAND. Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Mention Florists' Telegraph Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE**125,000 Sq. Ft. of Glass**
WORCESTER, MASS.**Flowers by Telegraph**

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—F. A. Danker, 40 Maiden Lane.

Albany, N. Y.—H. G. Eyres, 106 State St.

Albany, N. Y.—The Rosery, 23 Steuben St.

Albany, N. Y.—William C. Gloeckner, 97 State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont St.

Buffalo, N. Y.—S. A. Anderson, 440 Main St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid Ave.

Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th St.

Cleveland, O.—The Smith & Feters Co., 735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643 Broadway.

Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.

Los Angeles, Calif.—Howard & Smith, 853 So. Olive St.

New London, Conn.—Reuter's.

New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.

New York—David Clarke's Sons, 2139-2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison Ave., at 48th St.

New York—Dards, N. E. corner 44th St. and Madison Ave.

New York—Max Schling, 22 W. 50th St.

New York—G. E. M. Stumpp, 761 Fifth Ave.

New York—Thos. F. Galvin, Fifth Ave., at 48th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.

Passaic, N. J.—Edward Seery.

Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.

Washington, D. C.—Gude Bros., 1214 F St.

Washington, D. C.—F. H. Kramer, 915 F St., N. W.

Washington, D. C.—George H. Cooke

Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop

3 Pleasant St.

REUTER'S Members Florists' Telegraph Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.We cover the territory between
New Haven and Providence**ST. LOUIS, MO.**

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only**THE J. M. GASSER COMPANY,****CLEVELAND**

Euclid Avenue

The Far-Famed Flowers of
TORONTODelivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

MAKING FALSE STATEMENTS.

The Penalty for Speaking Falsely of a Competitor or of a Business Man Not a Competitor.

I have received the following through a Western paper:—

I have read in magazines from time to time of the penalties for various legal offenses, but have never had the pleasure of reading what the penalty is, or should be, if one man should knowingly send out a false statement that would have a tendency to destroy the credit of another. For instance, I know a watchmaker and jeweler in a country town who is a master of his profession, has a jewelry store that is a credit to the town—in fact, the best store the town has ever had. His store is paid for and he discounts all his bills. Now if, knowing the facts as I do, I should publish the story that this man carries no stock, does not always pay his bills promptly and is only a practical workman, what is the penalty for such an offense, or what should it be? Are there any United States Supreme Court decisions applicable to such a case, or what is the law pertaining to such an offense?

This correspondent asks about a jeweler, but I suppose I need not say that the legal principles involved here are the same no matter what line it is.

The correspondent seems to have an idea that the offense he speaks of is in itself a criminal offense, separate and distinct from other libels. That is not the fact. Aspersing the credit of a solvent merchant, or his ability as a master of his craft is a civil offense, and it may even be a criminal offense, but it is merely one of the class of punishable libels or slanders.

There are three aspects of such an offense:

- 1—The criminal libel (or slander) aspect.
- 2—The civil libel (or slander) aspect.
- 3 Misuse of the United States mails.

Such an offense could offend against the law in all three respects. If it offends against the first and third it would be punishable with fine or imprisonment; if it offends against the second it would be penalized by the payment of damages.

If the defamatory statement is written, it is libel; if spoken only, it is slander.

Consider No. 1. I question very much whether the language which this correspondent sets forth would be criminal libel at all. A man may be guilty of criminal libel though he speaks only the truth. The theory is that criminal libel tends to a breach of the peace, and it is therefore immaterial whether the thing said is true or not. But even if false it must be something pretty strong—stronger than this, in my judgment.

As to No. 2, this might or might not be misuse of the mails, and a

criminal offense under the United States laws. Sending through the mails any matter which is "libelous, scurrilous, defamatory, threatening, or calculated in any way to reflect injuriously upon the character or conduct of another," is misuse of the mails. But the matter must be exposed to the public gaze. If it is sealed inside of an envelope or a wrapper, it makes no difference how libelous it is, it is not misuse of the mails and the postal authorities will take no notice of it.

If this correspondent wrote the above on a postal card, he might or might not be guilty of misuse of the mails. I say he might not, because this language is a little weak for a criminal offense, in my judgment.

What this offense really is, is trade libel, a civil offense only. The law is pretty uniform about trade libel throughout the United States. Words which when spoken or written of an ordinary individual might not be slander or libel at all, would at once become so if spoken of a man in connection with his business, trade, profession or calling. A good definition of trade libel is—"any words spoken or written of a person in his office, trade, profession, business or means of getting a livelihood, which tend to expose him to the hazard of losing his office or position, or which charge him with fraud, indirect dealings, or incapacity." Such statements can be sued for even if no damage has occurred, because they tend to injure him in his trade, profession or business. In other words, the charge must be such that if true, would render him less qualified to carry on his business.

The law is especially tender with the reputations which men have won in business and will sharply punish anybody who destroys or injures them. To falsely say that a business man is in financial difficulty, or is dishonest, or a fraud, or has been guilty of any other practice which if true would make him a poorer manufacturer, merchant, clerk or artisan than he would otherwise be, is to be guilty of trade libel.

There is a case which holds that it is not a trade libel to say that a merchant does not pay his debts, because even if he didn't he could still be a first-class merchant so far as the public was concerned. But where you run him down generally—say that he has a poor store, doesn't keep a stock, and in fact is a poor, one-horse merchant besides not paying his debts, you paint a picture of slackness, inefficiency, and poor credit, which any court would almost certainly call a trade libel. Always provided, of

course, that it was untrue. If true, it is not a civil libel at all.

If the court held it to be a trade libel, it would allow damages even though no actual damages were suffered. The libel law knows two sorts of damages, general and special damages. Special damages are actual damages—those which do not necessarily follow from libel, but which may follow. If they have followed, no matter what the circumstances, they can be collected. An example would be where one merchant, speaking of a competitor, said to one of the latter's customers, "he is notorious in the trade for the shoddy goods he sells," and the customer, believing it, took his trade away. In many cases no damages except those which have actually happened, such as the above, or the loss of a position or of a contract, can be collected. If no damages can be proven, none can be collected.

But in trade libels it is not necessary to prove special (actual) damages; the law allows what it calls "general damages." General damages are those which the law holds necessarily follow from the speaking or writing of false words about business men. In other words, if I say to a jobber, speaking of a retailer, "I consider him financially weak," the law considers that I have inevitably done that man some injury—that I have in part destroyed the good opinion which the jobber had of him, even if the jobber did not take any business notice of what I said. Therefore, because there is this inevitable injury, which cannot be estimated in money, the jury which tries such a case will be allowed to give the plaintiff such a sum as it thinks will make him feel good again. This is the sort of damages which can be recovered in actions for trade libels.

(Copyright, October, 1916, by
Elton J. Buckley.)

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY
AND VICINITY
Members Florists' Telegraph Delivery

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 306. Long Dist. Bell Phone 2786
Members Florists' Telegraph Delivery

The Park Floral Co.
J. A. VALENTINE, Pres.
Members Florists' Telegraph Delivery.
DENVER, COLORADO

Send Telegraph, Telephone or Mail orders
for florist service in this vicinity to
Howard & Smith
853 SO. OLIVE ST.
Los Angeles, Calif.
Every Order sure to receive
prompt and careful attention.

HAPPY NEW YEAR

We extend to all who read **Horticulture** our best wishes for happiness and prosperity. Don't forget that when you stock up on Bayersdorfer & Co.'s goods you are getting

THE BEST IN THE WORLD

BASKETS For Plants BASKETS For Flowers BASKETS

In Endless Variety, Home Manufacture and Imported. Everything in Florists' Requisites.

Stock up now and have the goods to show customers. Send for prices and see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

Manufacturers and Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for Catalogue

NEWS ITEMS

CHICAGO.

August Jurgens was operated on for appendicitis at the Alexian Bros. Hospital last week. He is said to be doing nicely.

Gus Martial, who was for eight years with Reed & Keller in New York, is now in the supply department of Poehlmann Bros.

The tendency of prices to soar has not missed the supply houses. Ruscus is bringing 75c and \$1.00 per pound, wholesale, and statice \$2.50 per pound.

The Mrs. Shawyer rose has not been a success to many growers here, but F. F. Benthey is now getting splendid results from this variety at New Castle, Ind.

Albert Cole, proprietor of the Columbus Flower Shop, and American Beauty man for the E. C. Amling Co., is back to his duties after several days on the sick list.

At Poehlmann Bros. supply department it has been necessary for the force to work evenings and Sundays in order to get out the shipping orders, so great has been the demand for the holidays.

The American Bulb Co. is receiving gratifying reports from its traveling salesmen. Their attractive corsage accessory known as tricatine, is taking well with the trade. These are gold or silver.

At J. A. Budlong's some of the finest Milady roses coming into this market are seen. The heads are large and the stems fully four feet long, while the color is all that could be desired in a red rose. Miss Marie Sietmann is now with this firm as assistant bookkeeper and stenographer.

Extreme temperature caused some

eastern Christmas stock to come into Chicago frozen. The loss was mostly in plants. This was particularly unfortunate when the plant supply was inclined to be short. For some days the thermometer registered several degrees below zero.

Much interest has been shown in the trial of Nicholas Moga, gardener for the Saddle and Cycle Club, accused of murdering William Ulrey, 15 years old, by throwing a pair of shears at him for trespassing on the grounds. There was no question as to his guilt, but the jury was locked 11 to 1 for conviction, and was discharged. A new trial will follow.

BOSTON.

Robbins Bros. of Cambridge have leased a 125 foot greenhouse in Brighton and after making extensive alterations, intend to conduct business there, starting after January 15.

East Boston may now boast of another thoroughly modern and up-to-the-minute florists' shop. William J. Flynn has hung his sign out in Day Square and from all appearances the venture should be highly successful.

W. A. Riggs, Auburndale's popular florist, has just recovered from an acute attack of rheumatism. Mr. Riggs has been confined to his home for over two weeks, the busiest of the year, and consequently his business has suffered as well as he himself.

Thomas Connors, an old timer at the florist game is now connected with J. Newman of Tremont street. Martin Lally, Newman's manager had a serious attack of tonsillitis just prior to the Christmas rush and consequently Mr. Connors fitted into the temporary vacancy very nicely.

PERSONAL

We regret to hear of the illness of F. C. Weber, Sr., of St. Louis and hope he will have an early recovery.

Luther Burbank and his secretary, Miss Elizabeth Waters, were married at San Francisco on December 21. This is Mr. Burbank's second marriage.

Mr. Woodward, of the Lord & Burnham Co., left Philadelphia on the 22nd to pass the holidays at his old home in New Hampshire. About the 2nd or 3rd of January he will start for Chicago to take up his new duties there with the same firm. We bespeak for him, and for his genial chief, Montague Wright, the distinguished consideration of the trade in the Windy City. Both gentlemen have made good here in the Quaker City, and we part with regret and best wishes for their future welfare in their new field.

THE BIRD TREATY.

At the State Department in Washington last Thursday an absolutely novel event was staged. This was the exchange of ratifications by Ambassador Spring-Rice and Secretary Lansing of the treaty between Great Britain and the United States for the protection of insectivorous birds on both sides of the Canadian boundary.

And why not a treaty for the saving of these valuable friends of all the nations? They are far more worthy of international action than many other subjects of treaties. May this first agreement of the sort not be the last.

—Boston Post.

NEW CORPORATION.

Woburn, Mass.—Andersen Conservatories, capital stock, \$30,000. Incorporators, M. P. Andersen, 100 Pearl St., Woburn; J. C. Thompson and G. E. Parker.

CYPRIPEDIUMS

\$15.00 per 100

Gardenias—Bouvardia—Beauties

Each item you find with us in quantity. We
Specialize in Specialties.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER Florists' Supplies

122 West 35th St., New York

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RIEHOOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262 B DEVONSHIRE ST., BOSTON, MASS.

Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Dec. 28		ST. LOUIS Dec. 27		PHILA. Dec. 27	
Roses						
Am. Beauty, Special	40.00	to 60.00	40.00	to 50.00	40.00	to 50.00
" Fancy and Extra	15.00	to 30.00	20.00	to 30.00	15.00	to 30.00
" No. 1 and culls	4.00	to 10.00	4.00	to 6.00	6.00	to 12.50
Russell, Hadley	4.00	to 20.00	6.00	to 12.00	4.00	to 25.00
Killarney, Hillingdon, Ward, Extra	6.00	to 12.00	6.00	to 8.00	6.00	to 10.00
" Ordinary	4.00	to 5.00	4.00	to 5.00	3.00	to 6.00
Arenburg, Radiance, Taft, Key, Extra	1.00	to 15.00	.....	to	8.00	to 20.00
" Ordinary	4.00	to 5.00	.....	to	3.00	to 6.00
Ophelia, Mock, Sunburst, Euler, Extra	1.00	to 15.00	6.00	to 8.00	8.00	to 15.00
" Ordinary	1.00	to 5.00	4.00	to 6.00	3.00	to 6.00
Carnations	3.00	to 6.00	2.00	to 5.00	3.00	to 5.00
Cattleyas	35.00	to 75.00	.....	to 50.00	50.00	to 75.00
Dendrobium formosum	.....	to 50.00	.....	to	60.00	to 75.00
Lilies, Longiflorum	8.00	to 12.00	12.00	to 15.00	8.00	to 12.50
Lilies, Speciosum	.....	to .....	.....	to .....	.....	to
Lily of the Valley	3.00	to 6.00	5.00	to 6.00	3.00	to 6.00
Snapdragon	8.00	to 6.00	.....	to	4.00	to 10.00
Narcissi, Paper White	2.00	to 3.00	.....	to 3.00	2.00	to 3.00
Roman Hyacinths	3.00	to 4.00	.....	to	4.00	to 5.00
Calendulas	2.00	to 4.00	.....	to .....	.35	to 1.50
Violets	1.00	to 1.50	.75	to 1.25	.75	to 1.00
Sweet Peas	1.00	to 1.50	.50	to 1.00	1.00	to 2.00
Marguerites	.50	to 2.00	.....	to	1.00	to 2.00
Gardenias	.....	to 50.00	.....	to	20.00	to 40.00
Adiantum	.....	to 1.00	.....	to 1.00	.75	to 1.00
Smilax	12.00	to 20.00	.....	to 15.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	20.00	to 35.00	25.00	to 35.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture



SPENCER SWEET PEAS

Splendid quality, they are all colors, mostly the delicate shades of pink.

\$2.00 per 100

A few extra long at \$3.00

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.

Flower Market Report

BOSTON It is no exaggeration to say that Boston shattered some old traditions and

established some new precedents during the recent Christmas season. The violet, the former aristocrat of this holiday was "relegated to the rear" for corsage use and cattleyas found a cordial welcome in bouquets and for corsage wear. The expected demand for roses and carnations was cut nearly in twain. Potted plants were eagerly sought by the purchasing public. Ericas, poinsettias, bouvardias, begonias and cyclamen broke all records for number sold and the same would have been true of orange trees had there been more of them. Azaleas made the poorest showing of anything. Flowers were scanty and small, giving mute evidence of the lack of skilled labor and proper cultural attention in the Belgian nurseries, as well as injury suffered in their long journey and neglect, in transportation and on the docks. Ardisias, the gem of all Christmas berried plants, were very scarce and not very good as a rule. Although the local retailers did not handle the usual quantity of roses the wholesale houses made tremendous shipments to more distant points. Red varieties were especially active and what is believed to be a record price for Hadleys was established when one grower received \$1.00 apiece for the top quality. Red carnations were almost prohibitive in price and of inferior quality on the average. Other colors moved fairly well but white was discarded generally. The bulb stock moved rather weak. Trumpet narcissi and paper whites were in no great demand. Poinsettias of excellent quality and with stiff price tags were eagerly bought. Callas and lilies sold as usual. Lily of the valley was much in evidence, but quality far from extra. About half as much smilax as usual was on the market and it was all spoken for. Christmas wreaths, holly and mistletoe came into their own for a week and boxwood wreaths, balls and baskets were eagerly bought up. Up until Saturday night, Christmas quotations held fairly steady, but Sunday and Monday saw the customary drop and now all are back to normal

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Dec. 27	CHICAGO Dec. 27	BUFFALO Dec. 27	PITTSBURG Dec. 27
Roses				
Am. Beauty, Special.....	6.00 to 7.00	50.00 to 7.00	40.00 to 10.00	50.00 to 0.00
" " Fancy and Extra.....	40.00 to 50.00	40.00 to 50.00	15.00 to 25.00	30.00 to 40.00
" " No. 1 and 2.....	15.00 to 25.00	15.00 to 25.00	8.00 to 12.00	15.00 to 25.00
Russell, Hadley.....	20.00 to 40.00	5.00 to 30.00	4.00 to 2.00	8.00 to 20.00
Killarney, Hillingdon, Ward, Extra.....	10.00 to 15.00	8.00 to 10.00	8.00 to 10.00	8.00 to 12.00
Arenburg, Radiance, Taft, Key, Extra.....	1.00 to 8.00	4.00 to 6.00	3.00 to 6.00	4.00 to 6.00
Ophelia, Mock, Sunburst, Euler, Extra.....	12.00 to 15.00	5.00 to 12.00	8.00 to 10.00	8.00 to 12.00
Carnations	3.00 to 6.00	2.00 to 1.00	3.00 to 5.00	3.00 to 5.00
Cattleyas	6.00 to 75.00	60.00 to 75.00	50.00 to 75.00	40.00 to 70.00
Dendrobium formosum	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00
Lilies, Longiflorum	12.50 to 15.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
Lilies, Speciosum	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
Lily of the Valley	6.00 to 8.00	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00
Snopdragon	6.00 to 8.00	8.00 to 12.00	4.00 to 6.00	4.00 to 6.00
Narcissi, Paper White	3.00 to 4.00	3.00 to 4.00	4.00 to 6.00	3.00 to 6.00
Roman Hyacinths	3.00 to 4.00	3.00 to 4.00	4.00 to 6.00	3.00 to 6.00
Calendulas	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Violets.....	.75 to 1.00	.75 to 1.00	.75 to 1.00	.75 to 1.25
Sweet Peas	1.50 to 2.00	1.50 to 2.00	1.50 to 2.00	1.50 to 2.00
Marguerites	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Gardenias	25.00 to 35.00	25.00 to 35.00	25.00 to 35.00	25.00 to 35.00
Adiantum	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Smilax	15.00 to 20.00	10.00 to 20.00	15.00 to 20.00	10.00 to 20.00
Asparagus Plu. & Spreng. (100 Bhs.)	25.00 to 50.00	25.00 to 50.00	35.00 to 50.00	40.00 to 50.00

Chicago has had a wonderful Christmas trade and a general feeling of satisfaction prevails among wholesalers and retailers alike. The clean-up on plants was no surprise, for there were not enough to fill regular orders in expensive stocks, and heavier orders came in early for low priced plants in consequence, which were soon disposed of and retailers were on the alert for more before the rush was fairly begun. Cut flower sales were almost equally good on the closing days of the week. Buyers were on the market up to midnight Saturday and trade on Sunday was good. The pickled stock was again in evidence, with the usual unsatisfactory result to all concerned. Prices varied according to quality in the wholesale houses and there was plenty for all.

Poinsettias were in excellent supply for Christmas and met with a good demand. Roses were not

as plentiful as they had been, but there was a sufficiency. Carnations were fairly plentiful, but prices ranged high. A heavy cut of lilies came into the wholesale houses, also callas, stevia and narcissus were in good and sufficient quantity. Violets enjoyed a heavy call. Lily of the valley was not scarce and there were orchids and sweet peas in generous supply.

Trade was fair but not exceptional up to Saturday evening, December 23. After that the entire list broke badly. A heavy overstock had to be carried over by the wholesale dealers, with the usual result of ruinous prices for the accumulation on Monday and thereafter. All white roses went very slow, but the others cleaned up well until Sunday night. Top Beauties brought the traditional dollar each but it required some effort. There was a good demand for Russell, Hadley and Ophelia.

(Continued on page 888)

New England Florist Supply Co.
SPECIAL — 10 BARREL SALE — Sphagnum Moss, \$3.50
276 Devonshire Street, BOSTON, MASS.
Fort Hill, 3469
TELEPHONES: Main, 1789 W
Open 6 a. m. to 7 p. m.

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephone: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street
Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST
CONSIGNMENTS SOLICITED

PHONE 608 FARRAGUT NEW YORK
(609)

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens,
Tel. (503) 5003 Mad St. 119 W. 28 St., New York

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.

Wholesale Commission

READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE 2281 FARRAGUT 131 West 28th St., NEW YORK CITY
1089

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US
Prices Right. Consignments Solicited. Telephone Connection

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 2483 Farragut

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST GRADE OF VALLEY ALWAYS
GARDENIAS, DAISIES, ROSES, CARNATIONS ON HAND

JAMES McMANUS, TELEPHONE 105 W. 28th St., New York
FARRAGUT 759

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones 1864 }
2991 } Madison Square

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending Dec. 23 1916		First Half of Week beginning Dec. 25 1916	
American Beauty, Special	50.00	to 100.00	40.00	to 60.00
" Fancy and Extra	30.00	to 50.00	20.00	to 30.00
" No. 1 and culls	5.00	to 10.00	4.00	to 15.00
Russell, Hadley	5.00	to 75.00	4.00	to 50.00
Killarney, Hillingdon, Ward, Ex. and Sp.	10.00	to 15.00	6.00	to 12.00
Ordinary	5.00	to 8.00	4.00	to 5.00
Arenburg, Radiance, Taft, Key, Ex. and Sp.	10.00	to 25.00	8.00	to 20.00
Ordinary	5.00	to 8.00	4.00	to 6.00
Ophelia, Mock, Sunburst, Euler, Ex. and Sp.	10.00	to 20.00	6.00	to 15.00
Ordinary	5.00	to 8.00	4.00	to 6.00
Carnations	4.00	to 12.00	3.00	to 6.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for doing
our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK

Phones 2036, 2037, 558 Farragut

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797, 798, 799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality

114 West 28th Street
NEW YORK

**HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS**

55-57 West 26th Street

Telephones, 13—8510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page)

There was quite a slump in carnations and there were sales on Monday morning as low as \$2.00 and \$3.00 even for reds. Violets did very well. Lily of the valley sold all right, but at moderate figures. Mignonette, gardenias, wallflowers and calendulas had to be sold very cheap and did not clean up, at that. There were also plenty of sweet peas left over. Cattleyas did very well when quality was right. Generally, the feeling in wholesale flower circles is not at all jubilant over the Christmas outcome. Retailers acknowledge having given preference to the plant department and lay the blame for this on "pickled flowers" more than they do on the high prices asked. The present week is very dull on all sides.

PHILADELPHIA The general verdict is one of the best Christmases we ever had. This applies not only to cut flowers, but plants also. The Wednesday to Friday, three days, were the best. The last day coming on Sunday rather put a damper on the two closing days' trade which as a rule are always the best. Everything sold well and at good prices. About the only things left over were paper white narcissi and stevia. One would have thought that lilies would have shared in this neglect, but for some reason they didn't. They were in very good demand indeed and cleaned up at good figures.

ST. LOUIS Christmas prices were high in this market although there was no insurmountable scarcity. Roses and carnations held at top figures for fully a week previous and the stock was very fine, especially the roses. Red flowers had the call throughout. Violets held out well at excellent figures. The plant demand was very heavy and benefited by the prices asked for flowers. Poinsettias, begonias and cyclamen were the outstanding favorites. Lycopodium was very scarce.

FLOWER MARKET REPORTS.

Delayed mail deliveries have interfered with our market reports for the past two weeks. Christmas accounts from several points are still missing as we go to press.

A cutting from an American Journal has come into my hands, which imparts the information that The Protective Association of Holland Nurserymen has agreed not to send, direct or indirect, any nursery stock to be sold at auction, either to U. S. A. or Canada. Will our Dutch friends extend to Britain this same guarantee? Or will they seek the earliest opportunity of dumping into England the stock that might otherwise have found its way to America? We must watch this.—*Hort. Trade Jour. (Eng.)*

Telephone 2350 Madison Square

WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
37 and 39 West 28th St., NEW YORK

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A.M.

HERMAN WEISS WHOLESALE FLORIST

Can handle shipments of growers' product satisfactorily. Would like to hear from Growers of Snapdragons and Sweet Peas, etc., for the New York trade.

106 West 28th St., NEW YORK
Tel. Farragut 3066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending Dec. 23 1916	First Half of Week beginning Dec. 25 1916
Cattleyas.....	25.00 to 100.00	30.00 to 60.00
Dendrobium formosum.....	..... to 50.00	..... to 50.00
Lilies.....	12.00 to 15.00	..... to 12.00
Lilies, Speciosum.....	4.00 to 10.00	4.00 to 8.00
Lily of the Valley.....	4.00 to 8.00	4.00 to 6.00
Snapdragon.....	8.00 to 16.00	4.00 to 12.00
Narcissi, Paper White.....	2.00 to 3.00	2.00 to 3.00
Roman Hyacinths.....	2.00 to 4.00	8.00 to 4.00
Calendulas.....	3.00 to 6.00	3.00 to 5.00
Violets.....	1.00 to 2.00	.50 to 1.00
Sweet Peas.....	1.00 to 3.00	1.50 to 2.00
Marguerites.....	1.00 to 1.50	1.00 to 1.50
Gardenias, per doz.....	10.00 to 20.00	8.00 to 16.00
Adiantum.....	.75 to 1.00	.75 to 1.00
Smilax.....	12.00 to 15.00	12.00 to 16.00
Asparagus Plumosus, & Spreng (100 bunches).....	15.00 to 25.00	15.00 to 25.00

ORCHIDS - - GARDENIAS

HEADQUARTERS for the entire output of the

BEECHWOOD HEIGHTS NURSERIES, of Bound Brook, N. J.

PAUL MECONI — Wholesale Florist — NEW YORK

Telephone Nos. 3864 and 8364 Madison Square

57 WEST 26th STREET

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square
BOSTON, MASS.

Telephone 2618-2617-2616, Main.

William Stuart Allen Co.

Commission Merchants in

CUT FLOWERS

53 West 28th Street, NEW YORK

Telephone—356 Madison Square.

VIOLETS

B. S. SLINN, Jr., 55-57 W. 26th St.
NEW YORK

Send Flower Consignments to

L. B. NASON

Wholesale Florist

116 West 28th St., NEW YORK CITY

Shipping Orders Carefully Filled.

Correspondence solicited.

Telephone, Farragut 2245.

GEO. W. CRAWBUCK, Pres.

George W. Crawbuck Co. (INC.)

Wholesale Commission Florists

47 WEST 28th STREET, NEW YORK
Telephone, Madison Square 5298-5297

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of
Good Stock Solicited

111 W. 28th St., - NEW YORK

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street

167 & 2058 Farragut NEW YORK
Established 1888 Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists

110 West 28th St., New York

We Solicit Consignments of New
England Grown Novelties.

Beechwood Heights Nurseries

Importers and Growers of

ORCHIDS

Cut Flowers of All the Leading Varieties
in their Season.

THOMAS YOUNG, Jr., Proprietor
BOUND BROOK, N. J.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display Advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-LINGDALE GREENHOUSES, Collingdale, Pa.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price list.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEGONIAS.

Mrs. J. A. Peterson (New), 2 1/4 in. pots, \$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.

"King Ideal" Boiler.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

Hitchings & Co., New York City.
For page see List of Advertisers.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

August Rolker & Sons, New York City.
For page see List of Advertisers.

BOX TREES—Standards, Pyramids and Bush. Price list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
Lilium Harrisii.
For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
French and Dutch Bulbs.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
French, Japan, Holland and Cold Storage Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc.,
New York City.
For page see List of Advertisers.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
For page see List of Advertisers.

Albert Roper Estate, Tewksbury, Mass.
New Carnation Albert Roper.
For page see List of Advertisers.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Charles H. Totty, Madison, N. J.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
Pompon Chrysanthemums.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Elmer D. Smith, Adrian, Mich.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Or Frank Dunda, Farmingdale, N. Y.
Chrysanthemum—Alex Guttman.
For page see List of Advertisers.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

ORDERS BOOKED ANY TIME

For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Julius Roehrs Co., Rutherford, N. J.
Choice Flowering and Foliage Plants.
For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa.
For page see List of Advertisers.

Woodrow & Marketos, New York City.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

For Plants and Cuttings get our prices before ordering elsewhere. Our guarantee with every order. Write for a copy of our latest Plant Bulletin.

Asparagus	Cyclamen	Primula
Begonias	Daisies	Smilax
Bulbs	Dracaena	Snappedragons
Calceolaria	Ferns	Violets
Calendula	Geraniums	
Cineraria	Hydrangeas	

S. S. PENNOCK-MEEHAN COMPANY,
Philadelphia, 1608-1612 Ludlow St.
Baltimore, Franklin and St. Paul St.
Washington, D. C., 1216 H St., N. W.
New York, 117 W. 28th St.

FERNS

A. M. Davenport, Watertown, Mass.
Small Ferns for Dishes.
For page see List of Advertisers.

R. Vincent, Jr., & Sons Co., White Marsh, Maryland.
Boston Ferns.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
For page see List of Advertisers.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.

Wm. Elliott & Sons, New York City.
Clay's Fertilizers.
For page see List of Advertisers.

FLORISTS' SUPPLIES

Reed & Keller, New York City.
For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

For List of Advertisers See Page 867

FLORISTS' SUPPLIES—Continued

Welch Bros. Co., Boston, Mass.
For page see List of Advertisers.

FLOWER POTS

W. H. Ernest, Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Inc., Cambridge, Mass.
For page see List of Advertisers.

FUNGICIDES

Aphine Mfg. Co., Madison, N. J.
Fungine.
For page see List of Advertisers.

GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Geraniums, S. A. Nutt, 2 in., \$2.00 per hundred, \$18.00 per thousand; rooted cuttings, \$12.00 per thousand. Cash. Also few white cuttings and 2 in. W. E. ALLEN, Leominster, Mass.

GLADIOLI

John Lewis Childs, Flowerfield, L. I., N. Y.
New Catalogue.
For page see List of Advertisers.

GLASS

Sharp, Partridge & Co., Chicago.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Louis Cohen, New York City.
Window and Plate Glass.
For page see List of Advertisers.

Royal Glass Works, New York City.
For page see List of Advertisers.

Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GLASS—6 x 8, 8 x 10, 10 x 12, 10 x 14, \$1.90 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset, Boston.
Pecky Cypress.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Boston, Mass.

Metropolitan Material Co., Brooklyn, N. Y.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Hitchings & Co., New York City.
For page see List of Advertisers.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
For page see List of Advertisers.

HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
For page see List of Advertisers.

HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit, Mich.
For page see List of Advertisers.

The Kervan Co., New York.
For page see List of Advertisers.

HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
For page see List of Advertisers.

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

HOSE

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
For page see List of Advertisers.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

S. Jacobs & Sons, Brooklyn, N. Y.
For page see List of Advertisers.

Foley Greenhouse Construction Co., Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset, Mass.

INSECTICIDES

Hammond's Paint & Slug Shot Works, Beacon, N. Y.
Hammond's Thrip Juice No. 2.
For page see List of Advertisers.

Aphine Manufacturing Co., Madison, N. J.
Aphine.
For page see List of Advertisers.

Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
For page see List of Advertisers.

Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
For page see List of Advertisers.

Lemon Oil Co., Baltimore, Md.
Lemon Oil Insecticide.
For page see List of Advertisers.

IVIES

A. M. Davenport, Watertown, Mass.
English Ivies.
For page see List of Advertisers.

LILY BULBS.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

LILY BULBS—Continued

McHutchison & Co., New York.
Lily Bulbs from Japan.
For page see List of Advertisers.

R. M. Ward & Co., New York, N. Y.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Lilium Harrisii Bulbs.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
Lilium Giganteum.
For page see List of Advertisers.

Roman J. Irwin, New York City.
For page see List of Advertisers.

Yokohama Nursery Co., Ltd., New York City.
Lilium Giganteums.

LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hohmann's Famous Lily of the Valley Pips.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

MASTICA

F. O. Pierce Co., New York City.
For page see List of Advertisers.

NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.
Hatboro, Pa.
For page see List of Advertisers.

NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

NURSERY STOCK

A. Koloos & Co., Gouda, Holland; also L. Vanbeerde, care Maltus & Ware, 14 Stone St., New York City.
Holland Grown Roses, Plants and Shrubs.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

P. Ouwerkerk, Weebawken Heights, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Holland Nursery Stock.
For page see List of Advertisers.

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

ORCHID FLOWERS

Jas. McManus, New York, N. Y.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

ORCHID PLANTS

Beechwood Heights Nurseries,
Bound Brook, N. J.
Importers and Growers of Orchids.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Francisco Delgado Q, Bogota, Colombia.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.

PIPE AND FITTINGS.

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

August Rolker & Sons, New York City.
Hardy Roses.
For page see List of Advertisers.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONRAD & JONES COMPANY,
WEST GROVE, PA.

A. Koloos & Co., Gouda, Holland; also
L. Vanheerde, care Maltus & Ware,
14 Stone St., New York City.
For page see List of Advertisers.

SASH

STANDARD HOTBED SASH, with cross
bar, 85c. each; lots of 25 and over, 80c.
each. Satisfaction guaranteed or money
refunded. Glass 6x8, 8x10, 10x12 or
10x14, \$1.90 per box of 50 sq. ft.
C. N. ROBINSON & BRO., Dept. 29, Balti-
more, Md.

SCARLET SAGE SEED

D. Landreth Seed Co., Bristol, Pa.
For page see List of Advertisers.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co, Inc., New York City.
Shamrock Seed
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
Flower Seed for Early Sowing.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Amt. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Seeds, Selected Strains.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

American Bulb Co., Chicago, Ill.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
For page see List of Advertisers.

Roman J. Irwin, New York City.
For page see List of Advertisers.

S. D. Woodruff & Sons, New York City and
Orange, Conn.
Garden Seeds.
For page see List of Advertisers.

Fottler, Flisk, Rawson Co., Boston, Mass.
Seeds for the Florist

Clematis paniculata, Stokesia cyanea and
other seeds. BENJ. CONNELL, Florist,
Merchantville, N. J.

SHAMROCK SEED

Arthur T. Boddington, New York City.

SNAPDRAGON

Snapdragon from Ramsburg's Seed.
Nelrose 2 1/2 in. \$4.00 per 100
Phelps White 3 in. 6.00 per 100
Silver Pink 3 in. 6.00 per 100
DAVID F. DOANE, Deep River, Conn.

SPHAGNUM MOSS

New England Florist Supply Co., Boston,
Mass.

For page see List of Advertisers.

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
For page see List of Advertisers.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWOK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS**Albany, N. Y.**

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
For page see List of Advertisers.

Boston

Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

Welch's, 280-282 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
For page see List of Advertisers.

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kastling Co., 568-570 Washing-
ton St.
For page see List of Advertisers.

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.

Zech & Mann, 30 East Randolph St.
For page see List of Advertisers.

For List of Advertisers See Page 867

Detroit

Michigan Cut Flower Exchange, 264-266
Randolph St.
For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.

James McManus, 105 W. 28th St.
For page see List of Advertisers.

W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.

P. J. Smith, 131 West 28th St.
For page see List of Advertisers.

Hentz & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.

Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.

W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.

J. K. Allen, 118 West 28th St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 117 West
28th St.
For page see List of Advertisers.

Traendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
For page see List of Advertisers.

Badgley & Bishop, Inc., 34 West 28th St.
For page see List of Advertisers.

Paul Meconi, 57 West 28th St.
For page see List of Advertisers.

Woodrow & Marketos, 37 and 39 W. 28th St.
For page see List of Advertisers.

Riedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.

George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.

John Young & Co., 53 West 28th St.
For page see List of Advertisers.

M. C. Ford, 121 West 28th St.
For page see List of Advertisers.

United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.

Guttman & Raynor, Inc., 101 W. 28th St.
For page see List of Advertisers.

Gunter Bros., 110 West 28th St.
For page see List of Advertisers.

Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.

W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.

Herman Weiss, 106 West 28th St.
For page see List of Advertisers.

J. J. Coan, 115 West 28th St.
For page see List of Advertisers.

George W. Crawbuck Co., 47 West 28th St.
For page see List of Advertisers.

William Stuart Allen Co., 53 West 28th St.
For page see List of Advertisers.

L. B. Nason, 116 West 28th St.
For page see List of Advertisers.

B. S. Slinn, Jr., 55-57 West 26th St.
For page see List of Advertisers.

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.

Edward Reid, 1619-21 Ransstead St.
For page see List of Advertisers.

The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

WHOLESALE FLORISTS
Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.

New Offers In This Issue**DWARF GLADIOLUS.**

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

GREENHOUSE FOR SALE.

W. G. Dudley, Clifton Forge, Va.
For page see List of Advertisers.

MICHELL'S NEW CROP FLOWER SEEDS.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

NEW CHINESE PLANTS AND SHRUBS.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

RELIABLE NURSERY STOCK.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

SPENCER SWEET PEA SEED.

Arthur T. Boddington Co., Inc.,
New York City.
For page see List of Advertisers.

SPENCER SWEET PEA FLOWERS.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

WANTS, FOR SALE, ETC.**FOR SALE****GREENHOUSE FOR SALE**

Near White Sulphur and Hot
Springs, Va.

Address **W. G. DUDLEY**
CLIFTON FORGE, VA.

FOR SALE—Greenhouse property or part
interest in same. Two greenhouses, each
22 x 200 ft., in good condition, planted
mostly to Carnations, Sweet Peas and
Geraniums; 4 to 5 acres of land; good
location. **ALLEN & BLANCHARD**, 185
Exchange St., Leominster, Mass. Tel. 107W.

SITUATIONS WANTED

POSITION WANTED as assistant gar-
dener, private estate, inside or outside.
Can furnish good references. Single; ab-
stinent. **CHARLES SMITH**, 41 Warren
Ave., Boston, Mass.

THE NUT-GROWER

The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

To Our Readers

Please
Look
Carefully
through the ad-
vertisements in
this paper and
you will surely
Find
Something
You
Want.

You Can Never
Buy Cheaper
Than Now!

**TREES, SHRUBS, VINES and
HERBACEOUS PERENNIALS**

By **JOHN KIRKEGAARD**

Formerly Assistant to Director of the Royal
Botanical Gardens, Copenhagen, Denmark.
Latterly Twenty Years in American Flori-
culture and Botanical Work.

Assisted by **DR. H. T. FERNALD**,
Professor of Entomology Massachusetts
Agricultural College and Entomologist,
Massachusetts Agricultural Experiment
Station,

and **PROF. E. A. WHITE**,
Professor of Floriculture, New York State
College of Agriculture at Cornell Univer-
sity.

A Great Book A Beautiful Book
A Comprehensive Book
A Practical Book By Practical Men
There Is No Other Book Like It

410 Pages. Planting Plans. Tabular De-
scription and Classification of Species. 59
Full-Page Illustrations in Tone. Authorita-
tive Articles on Many Subjects.

New Edition

BEAUTIFULLY BOUND IN CLOTH
Price only \$2.50 net. Mailing
Price, \$2.71. Money-Back
Guarantee

Order it from **HORTICULTURE**
147 Summer St., Boston

In writing to Advertisers kindly mention Horticulture

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago**NOTES ON CONIFERS.**

(Continued from page 29)

have all grown well here in this climate for nearly thirty years and are still handsome and attractive trees of much promise. The Scotch Pine (*Pinus sylvestris*) and the Austrian Pine (*P. nigra*) are perfectly hardy and grow rapidly in this climate, but they are comparatively short-lived trees here and do not promise to be so valuable as the Japanese species. The White Pine of the Balkan peninsula (*Pinus peuce*) is very hardy here, producing its cones freely, and now promises to be a large and valuable tree. The Swiss Pine (*P. cembra*) is hardy but grows very slowly but it is possible that the form of this tree from central Siberia may prove more successful in this climate. The Asiatic representative of this Pine, *Pinus koraiensis*, from eastern Siberia, Korea and Japan, grows well here and produces its cones freely. Of the Pines of western America *Pinus flexilis* of the Rocky Mountain region grows slowly in the Arboretum but is healthy and perfectly hardy, as are the two White Pines, *P. Lambertiana*, the great Sugar Pine of California and Oregon, and *P. monticola* which ranges from Idaho to the coast of British Columbia and to the high Sierras of California.

Arnold Arboretum Bulletin.

THE PROPOSED FEDERAL QUARANTINE AGAINST TREES AND PLANTS.

Concerning the foregoing a prominent importing house has written to us as follows:

"Are you members of the American Forestry Association? We are, and have today an invitation to attend their meeting January 18-19 at Washington. In it they call attention to a movement to eliminate the White Pine Blister Rust in this country and other plant and tree pests imported annually, causing damage to the extent of hundreds of millions of dollars (hear?) and they propose to advise legislation for 'a wholesale Federal Quarantine against the importation from any Continent of Plant and Tree Stock, unless deemed necessary by the United States Department of Agriculture, so that in the future these diseases may be kept out of the country.'"

How is this, and how will it affect

our florist trade? Will the S. A. F. swallow this peacefully? If Europe, the declared home of these pests can combat them by intelligent measures to keep a plentiful supply of white pine and other trees, would this not look—to use a professor's term—like a "testimonium paupertatis" to our eminent specialists in Washington and elsewhere? You can cure a headache by cutting off your head, but I, for one, do not quite fancy such treatment. Will you investigate this a little closer? The writer thinks that our different trade associations should take timely steps in this matter, otherwise good bye all imports from Holland, from France, from England, from Belgium, etc."

GREENHOUSES BUILDING OR CONTEMPLATED.

Rydal, Pa.—Chas. E. McInnes, one house.

Austin, Tex.—Charles Alf, Sr., range of houses.

Vincentville, Md.—Fred Magsamen, one house.

Honeye Falls, N. Y.—Charles Fowler, additions.

Portland, Ore.—W. L. Spencer, Bull-run, house 32 by 160.

Falmouth, Mass.—George B. White, Mill road, one house.

Roundup, Mont.—Gibray Bros., house 42 by 80, completed.

Springdale, Ark.—S. L. Johnson, Moninger house 54 by 150.

Lamar, Col.—Lamar Greenhouse Co., house 24 by 110, completed.

Huntingburg, Ind.—Peter Morgen, potting shed, 62 by 75; house 15 by 150; house 33 by 60, all completed.

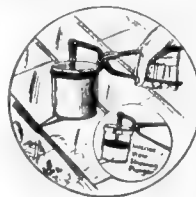
MASSACHUSETTS AGRICULTURAL COLLEGE NOTES.

Professor A. H. Nehrling and Mrs. Nehrling are spending the holidays in Indiana.

Prof. Arthur Thurston of the Iowa State Agricultural College is spending the holiday season in Boston.

The winter short course begins January 1. Prof. A. H. Nehrling is handling commercial floriculture; C. E. Wildon is conducting the course in garden flowers. Information regarding the short course can be had by addressing William Hurd of the Extension Service, Amherst, Mass.

Marlton, N. J.—Reopening of the old marl pits in this vicinity and the establishment of a great fertilizer industry are expected as a result of recent borings made by geological experts. Holes have been drilled to a depth of 60 feet, and the deeper they went the better was the quality of the marl. In some of the tests it is said a 10 per cent. deposit of potash was found in the marl. The old pits were once the centre of a great industry, the deposits here being regarded as the richest in the country.

**The Only Perfect
Liquid Putty Machine**

Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

SEAL TIGHT LIQUID PUTTY
\$1.35 per Gallon in 10 Gallon lots
\$1.40 per Single Gallon

METROPOLITAN MATERIAL CO
1392-1414 Metropolitan Ave., Brooklyn, N. Y.

**DREER'S**

Florist Specialties,
New Brand. New Style.
Hose "RIVERTON."
Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST
1/2-inch, per ft., 15 c.
Reel of 500 ft., 14 1/2 c.
2 Reels, 1000 ft., 14 c.
3/4-inch, 13 c.
Reels, 500 ft., 12 1/2 c.

Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

**STANDARD FLOWER
POTS**

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST

29th & M Sts., Washington, D. C.

GET OUR CATALOGUE

On Ventilating Apparatus and Greenhouse Fittings
ADVANCE CO., RICHMOND, IND.

FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, - - - - - CHICAGO, ILL.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

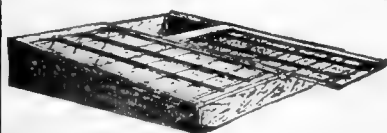
MASTICA



For Greenhouse
Glazing
USE IT NOW

F. O. PIERCE CO.
12W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



HOTBED SASH at 80c. each

Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.

Double Light Sash up to \$4.00.

We carry a large stock of all sizes.

Write us for estimate

S. JACOBS & SONS

1359-1385 Flushing Avenue BROOKLYN, N. Y.



NON-KINK WOVEN HOSE

In any length (one piece) with couplings, 15c. per foot. Unequalled at the price.

Hose Valve, 70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

The Florists Hail Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address **JOHN G. ESLER, Sec., Saddle River, N. J.**

Dreer's Peerless Glazing Points

For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealers or direct from us.

1000, 75c. postpaid.

Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

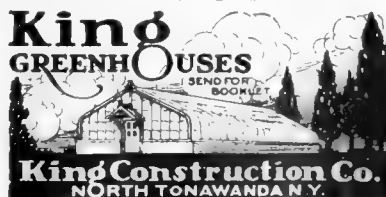
FULL
SIZE
No 2

GREENHOUSE GLASS

Double and single thick selected glass all sizes from 6x8 to 16x24. Ten boxes or more at wholesale prices.

ROYAL GLASS WORKS

120 Wooster Street NEW YORK CITY



King Construction Co.
NORTH TONAWANDA N. Y.

LOUIS COHEN

Window and Plate Glass

86 1st Avenue, NEW YORK CITY

Double Thick 16/24 for the Florist

A SPECIALTY. WRITE ME FOR PRICES.



Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

EVERYTHING FOR THE GREENHOUSE

Ready for Immediate Delivery
In Any Quantity

Should you desire to purchase the various parts and do your own building, see us.

CYPRESS. Gulf Cypress, thoroughly air dried, in any quantity up to cargo lots.

BOILERS. All kinds, all sizes. Scientifically perfect. Fuel saving.

VENTILATING APPARATUS. Simple but reliable, easy to operate.

FITTINGS. For heating, irrigating, benches, construction.

HOTBED SASH. All sizes. Thousands in stock.

PUTTY and Liquid Putty.

GLASS, all sizes, any quantity.

Our stock comprises anything and everything pertaining to greenhouse construction.

**WE CAN SAVE MONEY
FOR YOU.**

S. Jacobs & Sons

Greenhouse Builders

1359-1385 Flushing Avenue

BROOKLYN, N. Y.

GLASS

GREENHOUSE MATERIAL HOT-BED SASHES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

PATENTS

Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms, Address.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

SERVICE

We're leaving no stone unturned to keep it just as close to top-notch as possible

THIS time of booming business, is the time of times when you want that new greenhouse of yours in a jiffy—so that you can surely get your share of the boom-profits.

Yet this time of booming business (**because** of booming business) is just the time when manufacturers in most lines find their raw materials pretty seriously tied up; and deliveries delayed more or less as a result.

We are no exception.

But we **are** making efforts that are perhaps **exceptional** to make delays in our deliveries "as less" as possible; and have our service to you just as top-notch as it can possibly be under existing conditions.

Of course, we can't help the raw material tie-up. But we **can** do things on **this** end of the line, so that when we **do** get our raw material we can make up a good bit of the time lost in getting it.

We **do** do, these very things.

We consider no expense for new machinery or additional skilled labor needed to do them, too great; because we so keenly appreciate the vital importance of **quicker deliveries** to you.

Hitchings and Company



NEW YORK
1170 Broadway

BOSTON
49 Federal Street

PHILADELPHIA
40 S. 15th Street

General Offices and Factory, Elizabeth, N. J.

